Armando Martinez
Operations Lead, Portfolio Operations Central

September 01, 2022

Mr. Brad Jones
Environmental Scientist Specialist – Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, New Mexico 87505

Re: Chevron Jal Landfarm (Permit NM2-0012), Lea County, New Mexico Release Response Sampling Results and Action Plan

Mr. Jones:

Chevron Environmental Management Company (CEMC) is continuing to manage ongoing activities at the Chevron Jal Landfarm (NM2-0012) located in Lea County, New Mexico. As part of the that ongoing work at the Jal Landfarm, and in accord with the requirements of 19.15.36.15.E(5) NMAC, we are submitting for your review and comment the following document (in electronic Adobe PDF format):

> *Release Response Sampling Results and Action Plan – Second Semi-Annual Event 2021* dated September 2022

This report was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of CEMC to document release response activities performed at the Jal Landfarm in January 2022 following the second semi-annual soil sampling event (performed in December 2021). One complete electronic copy is being provided via the online pay portal as previously requested by the NMOCD.

Should you have any questions or require additional information please contact me at (505) 690 5408 or you can reach me via email at amarti@chevron.com.

Respectfully,

Armando Martinez

cc: Mr. Ryan Nanny, Project Manager, Arcadis
Ms. Alison Schaffer, Project Scientist, Arcadis

Armando Martinez
Operations Lead Central
Portfolio Operations - Central
354 State Highway 38, Questa, NM 87556-0469
Tel 575 586 7639 Mobile 505 690 5408 Fax 575 586 0811
amarti@chevron.com

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Chevron Environmental Management Company

Release Response Sampling Results and Action Plan – January 2022

Jal Landfarm NM-02-0012

Centralized Surface Waste Management Facility

Lea County, New Mexico

September 2022

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Release Response Sampling Results and Action Plan – January 2022

Jal Landfarm NM-02-0012
Centralized Surface Waste Management Facility
Lea County, New Mexico

September 2022

Prepared By:
Arcadis U.S., Inc.
630 Plaza Drive, Suite 200
Highlands Ranch
Colorado 80129
Phone: 720 344 3500
Fax: 720 344 3535

Prepared For:
Chevron Environmental Management Company

Our Ref:
30133889

Alison Schaffer
Associate Project Manager

Ryan Nanny
Project Manager

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Acronyms and Abbreviations

Arcadis	Arcadis U.S., Inc.
Background SAP	Draft Background Sampling and Analysis Plan, Jal Landfarm NM-02-0012, Centralized Surface Waste Management Facility, Lea County, New Mexico
BTEX	benzene, toluene, ethylbenzene, and xylenes
CEMC	Chevron Environmental Management Company
DRO	diesel range organics
GRO	gasoline range organics
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	Centralized Surface Waste Management Facility NM-02-0012 located in Lea County, New Mexico
SVOC	semi-volatile organic compound
TDS	total dissolved solids
TPH	total petroleum hydrocarbons
Transitional Provisions	Transitional Provisions of the Surface Waste Management Facilities Part 36 (19.15.36.20 NMAC)
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 (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 December 24, 2020, the NMOCD approved a minor permit modification request (Arcadis 2020b; NMOCD 2020) that permitted future site activities to be conducted in accordance with Part 36 requirements in lieu of requirements of provision 19.15.36.20 of Part 36 (Transitional Provisions). In 2021, the Site was operated in accordance with the requirements specified in permit NM-02-0012 and Part 36.

1.1 Overview and Purpose

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 to 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 activities 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”.

A background sample was initially collected on June 24, 1998, and the analytical results, presented in Table 1 below, were used to determine whether a release had occurred in 2021. The 1998 sample was analyzed for TPH (gasoline range organics [GRO] fraction), major cations and anions, BTEX, and heavy metals (Texaco Exploration & Production, Inc. 1998). Representative background soil concentrations were not established for diesel range organics (DRO) and oil range organics (ORO) fractions; therefore, detections of DRO or GRO above the sample detection limit (SDL) indicated that a release had occurred. To establish background conditions in accordance with Part 36 requirements, additional background sampling and analysis was performed at the Site in March 2021 in accordance with the approved 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 2022b). The previously approved background concentration data from 1998 are superseded by the background soil concentrations presented in the Background Sampling Report (Arcadis 2021).

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Table 1. Background Soil Concentrations

TPH & BTEX	Concentration (mg/kg)	Cations/Anions	Concentration (mg/kg)	Total Metals	Concentration (mg/kg)
TPH (GRO)	< 5.00	Potassium	39.0	Arsenic	< 5.0
Benzene	< 0.05	Magnesium	49.0	Selenium	< 5.0
Toluene	< 0.05	Calcium	800.0	Cadmium	< 2.0
Ethylbenzene	< 0.05	Sodium	5.1	Chromium	6.1
Xylene	< 0.05	Fluoride	1.7	Lead	< 5.0
		Chloride	10.0	Silver	< 5.0
		Nitrate	2.2	Barium	45.0
		Sulfate	15.0	Mercury	< 0.25
		Bicarbonate	3,500		
		Carbonate	80.0		

Notes:
1. The June 1998 background soil sample was collected from the center of the Site at a depth of 2 to 2.5 feet below native ground surface.
mg/kg = milligram(s) per kilogram

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 fourth quarter semi-annual 2021 soil sampling event was performed in December 2021. Results of the vadose zone sampling showed that DRO and chloride concentrations were detected above the SDL or 1998 background soil concentration in Cells 17, 18, 19, 20, 21, and 25; therefore, the release response process was initiated. CEMC notified the NMOCD of the exceedances and a release response sampling event was performed in January 2022.

The purpose of this document is to provide a summary of the December 2021 vadose zone sampling event and the January 2022 release response sampling event and associated results, and to provide a release response action plan to address the potential release of petroleum-related impacts in the vadose zone of the Site.

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2 December 2021 Vadose Zone Sampling

The December 2021 vadose zone sampling event was performed from December 13 through 15, 2021. Four randomly selected, discrete soil samples were collected from the vadose zone of each active cell. Samples were collected at a depth of approximately 3 to 4 feet below native ground surface. The December 2021 sample locations are shown on Figure 2.

Prior to sample collection, an approximate 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 then used to remove an additional 6 inches of native soil and approximately 1.5 feet of caliche from the sample location. Once the desired sample 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 labelled and shipped on ice to Eurofins Xenco in Stafford, Texas for laboratory analysis. The discrete sample locations were recorded with a Trimble handheld global positioning system receiver.

After each discrete sample was collected, the sample 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 pressure washer.

Soil samples were analyzed for the following constituents:

- TPH as DRO, GRO, and ORO by United States Environmental Protection Agency (USEPA) Method 8015B. 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.
- BTEX by USEPA Method 8260B
- Chloride by USEPA Method 300.0.

2.1 December 2021 Vadose Zone Sampling Results

Analytical results from the December 2021 vadose zone sampling event are provided in Table 2. 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 1998 background soil concentrations and SDLs to determine whether a release had occurred. The results are summarized below.

- *TPH*: The DRO concentration was detected above the SDL in Cell 21. GRO and ORO concentrations were below the SDL or background soil concentration in all other cells.
- *BTEX*: BTEX concentrations were below the background soil concentrations in all cells.
- *Chloride*: Chloride concentrations were detected above the background soil concentration in Cells 17, 18, 19, 20, and 25.

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3 Release Response Soil Sampling

Release response sampling was performed in response to DRO and chloride detected at concentrations above the SDL or 1998 background soil concentration in the vadose zone. On January 24 through 28, 2022, four randomly selected, discrete vadose zone soil samples were collected from Cells 17, 18, 19, 20, 21, and 25 following the same methodology as described in Section 2. The January 2022 sample locations are shown on Figure 2. Arcadis received clarification from the NMOCD that release response samples should be randomly selected around the sample location(s) with initial detection, and not randomly selected solely within the respective landfarm cell. Arcadis implemented this revised randomized sampling approach during the January 2022 release response soil sampling event.

On April 20, 2022, Arcadis received additional clarification from the NMOCD that the individual detected releases from the routine vadose zone monitoring should be assessed during the release response sampling event; this would require that the four randomly selected, independent samples required of 19.15.36.15.E(5) NMAC be randomly located around the sample location(s) of the initial detection within each landfarm cell that prompted the release response sampling (NMOCD 2022a). Arcadis will implement this revised sampling approach moving forward as required.

The January 2022 release response samples were analyzed for the following constituents:

- TPH as DRO, GRO, and ORO by USEPA Method 8015B. TPH is represented as the sum of the DRO, GRO, and ORO fractions.
- BTEX by USEPA Method 8260B.
- Chloride by USEPA Method 300.0.
- Constituents listed in Subsections A and B of 20.6.2.3103 NMAC.

3.1 Release Response Soil Sampling Results

Analytical results from the January 2022 vadose zone sampling event are provided in Tables 3 through 10. 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 currently recognized background soil concentrations provided in the approved Background Sampling Report (Arcadis 2021). The results are summarized below.

- *TPH*: DRO, GRO, and ORO concentrations were below the background soil concentration in all cells.
- *BTEX*: The total xylenes concentration was detected above the background soil concentration in Cell 21. BTEX concentrations were below the background soil concentrations in all other cells
- *Chloride*: Chloride concentrations were detected above the soil background concentration in Cell 17.
- *Constituents listed in Subsections A and B* (see Table 11 below):
  - Metals, as listed below, were detected at concentrations greater than the background soil concentration in Cells 17, 18, 19, 20, 21, and/or 25:

  - Antimony: Cells 20, 25
  - Arsenic: Cell 17
  - Beryllium, chromium, copper, and iron: Cell 25
  - Manganese: Cell 20
  - Zinc: Cells 21, 25
- Volatile organic compound (VOC) styrene was detected at a concentration greater than the background soil concentration in Cell 17.
- Semi-volatile organic compound (SVOC) concentrations were below the background soil concentrations in all cells.
- Polychlorinated biphenyl (PCB) concentrations were below the background soil concentrations in all cells.
- Other constituents, as listed below, were detected at concentrations greater than the background soil concentration in Cells 17, 18, 19, 20, 21, and/or 25:
  - Nitrate: Cells 17, 18, 19, 20, 21, and 25
  - Perchlorate: Cells 17 and 19
  - pH: Cells 17, 18, 19, 20, and 21
  - Sulfate: Cells 19, 20, and 21
  - Total dissolved solids (TDS): Cells 17, 20, and 25
- Radium, including combined Radium-226 and Radium-228, was detected above the background soil concentration in Cells 17, 18, 19, 20, and 21.
- Pesticide concentrations were below the background soil concentrations in all cells.

Table 11. Summary of Constituents Listed in Subsections A and B That Exceed the Background Soil Concentrations

Cell	Metals	VOCs	SVOCs	PCBs	Other Constituents	Radium	Pesticides
Cell 17	Arsenic	Styrene	None	None	Nitrate, TDS, pH perchlorate	Combined Radmium-226 + 228	None
Cell 18	None	None	None	None	Nitrate, pH	Combined Radmium-226 + 228	None
Cell 19	None	None	None	None	Nitrate, sulfate, pH, perchlorate	Combined Radmium-226 + 228	None
Cell 20	Antimony, manganese	None	None	None	Nitrate, sulfate, TDS, pH	Combined Radmium-226 + 228	None
Cell 21	Zinc	None	None	None	Nitrate, sulfate, pH	Combined Radmium-226 + 228	None
Cell 25	Antimony, beryllium, chromium, copper, iron, zinc	None	None	None	Nitrate, TDS	None	None

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4 Release Response Action Plan

The January 2022 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 submittal of a release notification, additional site assessment and characterization, remediation (if required), and closure.

Management of impacts within the treatment zone will continue in accordance with provision 19.15.36 NMAC. Additionally, as part of the minor permit modification request (Arcadis 2020b), submitted to the NMOCD on June 27, 2019, CEMC requested to discontinue tilling at active Cells 17 through 21, 25, and 26. No new waste material has been added to these cells since 2007, and continued tilling may have been inadvertently contributing to the mixing of treatment and vadose zone soil resulting in an unauthorized release to the vadose zone. The NMOCD approved the minor permit modification request on December 24, 2020 and tilling operations were subsequently discontinued. Vadose zone samples collected in 2021 represent the first series of samples collected and analyzed since tilling has stopped.

The following activities will be performed at the Site:

- Continued treatment zone and vadose monitoring in accordance with permit NM-02-012 and Part 36 requirements.
- Continued 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: Chevon 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. 2022a. Letter from B. Jones (NMOCD) to A. Martinez (Chevron) re: Approval of the Release Response Action Plan, Jal Landfarm, Permit NM2-012. April 20.

NMOCD. 2022b. Letter from B. Jones (NMOCD) to A. Martinez (Chevron) re: Approval of the Background Sampling Report, Jal Landfarm, Permit NM2-012. May 27.

Texaco Exploration & Production, Inc. 1998. Application for Waste Management Facility Soil Remediation/Landfarm Facility, Lea County, New Mexico. July 29.

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Tables

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Table 2: December 2021 Vadose Zone Soil Sampling Analytical Results
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm NM-02-0012
Lea County, New Mexico

		Constituent	DRO		GRO		ORO		TPH[a]		Benzene		Toluene		Ethylbenzene		Xylenes		Chloride	
		Method	8015B		8015B		8015B		8015B		8260B		8260B		8260B		8260B		300.0	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentration	--		< 5.00		--		--		< 0.05		< 0.05		< 0.05		< 0.05		10.0	
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-Square16-S-3-4-211213	12/13/2021	22.9	U	22.9	U	22.9	U	68.7	--	0.000225	U	0.00109	U	0.000365	U	0.00107	U	37.7	--
Cell 17	Vadose	Cell17-Square116-S-3-4-211213	12/13/2021	22.6	U	22.6	U	22.6	U	67.8	--	0.000222	U	0.00107	U	0.000361	U	0.00106	U	10.5	J
Cell 17	Vadose	Cell17-Square120-S-3-4-211213	12/13/2021	22.5	U	22.5	U	22.5	U	67.5	--	0.000219	U	0.00106	U	0.000356	U	0.00104	U	7.26	J
Cell 17	Vadose	Cell17-Square130-S-3-4-211213	12/13/2021	25.1	U	25.1	U	25.1	U	75.3	--	0.000246	U	0.00119	U	0.000399	U	0.00117	U	75.9	--
Cell 18	Vadose	Cell18-Square14-S-3-4-211213	12/13/2021	24.3	U	24.3	U	24.3	U	72.9	--	0.000275	J	0.00161	J	0.000382	U	0.00112	U	43.0	--
Cell 18	Vadose	Cell18-Square22-S-3-4-211213	12/13/2021	28.0	U	28.0	U	28.0	U	84.0	--	0.000275	U	0.00133	U	0.000446	U	0.00131	U	7.90	J
Cell 18	Vadose	Cell18-Square156-S-3-4-211213	12/13/2021	23.3	U	23.3	U	23.3	U	69.9	--	0.000227	U	0.00110	U	0.000368	U	0.00108	U	5.77	J
Cell 18	Vadose	Cell18-Square175-S-3-4-211213	12/13/2021	23.1	U	23.1	U	23.1	U	69.3	--	0.000224	U	0.00108	U	0.000363	U	0.00107	U	8.09	J
Cell 19	Vadose	Cell19-Square144-S-3-4-211213	12/13/2021	22.2	U	22.2	U	22.2	U	66.6	--	0.000218	U	0.00105	U	0.000353	U	0.00104	U	6.20	J
Cell 19	Vadose	Cell19-Square27-S-3-4-211214	12/14/2021	22.5	U	22.5	U	22.5	U	67.5	--	0.000222	U	0.00116	J	0.000360	U	0.00106	U	14.4	--
Cell 19	Vadose	Cell19-Square83-S-3-4-211213	12/13/2021	23.5	U	23.5	U	23.5	U	70.5	--	0.000231	U	0.00112	U	0.000375	U	0.00110	U	6.37	J
Cell 19	Vadose	Cell19-Square128-S-3-4-211214	12/14/2021	21.6	U	21.6	U	21.6	U	64.8	--	0.000213	U	0.00103	U	0.000345	U	0.00101	U	6.32	J
Cell 20	Vadose	Cell20-Square14-S-3-4-211214	12/14/2021	22.3	U	22.3	U	22.3	U	66.9	--	0.000240	J	0.00168	J	0.000356	U	0.00106	J	7.26	J
Cell 20	Vadose	Cell20-Square18-S-3-4-211214	12/14/2021	24.0	U	24.0	U	24.0	U	72.0	--	0.000237	U	0.00123	J	0.000385	U	0.00113	U	6.77	J
Cell 20	Vadose	Cell20-Square41-S-3-4-211214	12/14/2021	23.0	U	23.0	U	23.0	U	69.0	--	0.000223	U	0.00154	J	0.000362	U	0.00106	U	14.2	--
Cell 20	Vadose	Cell20-Square170-S-3-4-211214	12/14/2021	22.2	U	22.2	U	22.2	U	66.6	--	0.000217	U	0.00105	U	0.000352	U	0.00103	U	6.05	J
Cell 21	Vadose	Cell21-Square18-S-3-4-211214	12/14/2021	22.2	U	22.2	U	22.2	U	66.6	--	0.000219	U	0.00119	J	0.000355	U	0.00104	U	8.13	J
Cell 21	Vadose	Cell21-Square37-S-3-4-211214	12/14/2021	31.3	J	22.5	U	22.5	U	76.3	--	0.000220	U	0.00106	U	0.000358	U	0.00105	U	7.40	J
Cell 21	Vadose	Cell21-Square90-S-3-4-211214	12/14/2021	23.2	U	23.2	U	23.2	U	69.6	--	0.000226	U	0.00109	U	0.000366	U	0.00107	U	5.44	J
Cell 21	Vadose	Cell21-Square117-S-3-4-211214	12/14/2021	22.4	U	22.4	U	22.4	U	67.2	--	0.000219	U	0.00111	J	0.000356	U	0.00104	U	8.18	J
Cell 25	Vadose	Cell25-Square33-S-3-4-211214	12/14/2021	22.9	U	22.9	U	22.9	U	68.7	--	0.000223	U	0.00108	U	0.000361	U	0.00106	U	13.7	--
Cell 25	Vadose	Cell25-Square70-S-3-4-211214	12/14/2021	23.3	U	23.3	U	23.3	U	69.9	--	0.000229	U	0.00110	U	0.000371	U	0.00109	U	8.15	J
Cell 25	Vadose	Cell25-Square176-S-3-4-211214	12/14/2021	22.8	U	22.8	U	22.8	U	68.4	--	0.000222	U	0.00107	U	0.000360	U	0.00106	U	5.31	J
Cell 25	Vadose	Cell25-Square190-S-3-4-211214	12/14/2021	23.0	U	23.0	U	23.0	U	69.0	--	0.000225	U	0.00109	U	0.000364	U	0.00107	U	4.24	J
Cell 26	Vadose	Cell26-Square8-S-3-4-211215	12/15/2021	28.2	U	28.2	U	28.2	U	84.6	--	0.000278	U	0.00134	U	0.000451	U	0.00132	U	5.64	J
Cell 26	Vadose	Cell26-Square74-S-3-4-211215	12/15/2021	27.0	U	27.0	U	27.0	U	81.0	--	0.000263	U	0.00127	U	0.000427	U	0.00125	U	7.17	J
Cell 26	Vadose	Cell26-Square183-S-3-4-211215	12/15/2021	23.1	U	23.1	U	23.1	U	69.3	--	0.000231	U	0.00111	U	0.000374	U	0.00110	U	7.71	J
Cell 26	Vadose	Cell26-Square210-S-3-4-211215	12/15/2021	23.4	U	23.4	U	23.4	U	70.2	--	0.000228	U	0.00110	U	0.000370	U	0.00109	U	5.20	J

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 sample detection limit (i.e., 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 for TPH, BTEX, and chloride. Background soil concentrations (from 1998) are available for GRO, BTEX, and chloride; therefore, GRO, BTEX, and chloride analytical results are compared to these values. DRO and ORO analytical results are compared to SDL values.

3. Detected values highlighted in grey exceed the 1998 background soil concentrations or SDL.

-- = not applicable

BTEX = benzene, toluene, ethylbenzene, and xylenes

DRO = diesel range organics

GRO = gasoline range organics

ID = identification

mg/kg = milligrams per kilogram

MQL = method quantitation limit

NMAC = New Mexico Administrative Code

ORO = oil range organics

SDL = sample detection limit

TPH = total petroleum hydrocarbon

Qualifiers:

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.

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Table 3: January 2022 Vadose Zone Soil Sampling Analytical Results: TPH, BTEX, and Chloride
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				DRO		GRO		ORO		TPH[a]		Benzene		Toluene		Ethylbenzene		Xylenes		Chloride	
Method				8015B		8015B		8015B		8015B		8260B		8260B		8260B		8260B		9056A	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentration				36.2		0.0822		36.2		--		0.000631		0.000902		0.000451		0.000501		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-Square 26-S-3-4-220124	1/24/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000619	U	0.000884	U	0.000442	U	0.000491	U	666	--
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	20.8	U	20.8	U	20.8	U	62.4	--	0.000618	U	0.000882	U	0.000441	U	0.000490	U	13.4	--
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000569	U	0.000812	U	0.000406	U	0.000451	U	3.59	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000570	U	0.000814	U	0.000407	U	0.000452	U	93.7	--
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	20.8	U	20.8	U	20.8	U	62.4	--	0.000532	U	0.000760	U	0.000380	U	0.000422	U	3.48	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	21.0	U	21.0	U	21.0	U	63.0	--	0.000531	U	0.000759	U	0.000379	U	0.000422	U	24.0	--
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000573	U	0.000818	U	0.000409	U	0.000455	U	5.29	J
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000621	U	0.000888	U	0.000444	U	0.000493	U	7.37	J
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	21.0	U	21.0	U	21.0	U	63.0	--	0.000615	U	0.000879	U	0.000439	U	0.000488	U	16.9	--
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000571	U	0.000815	U	0.000408	U	0.000453	U	8.54	J
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	21.2	U	21.2	U	21.2	U	63.6	--	0.000587	U	0.000838	U	0.000419	U	0.000466	U	8.62	J
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000529	U	0.000756	U	0.000378	U	0.000420	U	10.4	--
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	21.0	U	21.0	U	21.0	U	63.0	--	0.000588	U	0.000840	U	0.000420	U	0.000466	U	4.36	J
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	20.9	U	20.9	U	20.9	U	62.7	--	0.000586	U	0.000836	U	0.000418	U	0.000465	U	15.8	--
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	21.0	U	21.0	U	21.0	U	63.0	--	0.000554	U	0.000791	U	0.000395	U	0.000439	U	7.81	J
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000618	U	0.000882	U	0.000441	U	0.000490	U	3.50	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	21.0	U	21.0	U	21.0	U	63.0	--	0.000618	U	0.000882	U	0.000441	U	0.000490	U	3.60	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000614	U	0.000877	U	0.000439	U	0.000487	U	3.56	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000618	U	0.000882	U	0.000441	U	0.000490	U	3.53	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	25.5	J	21.0	U	21.0	U	67.5	--	0.000531	U	0.000759	U	0.000379	U	0.00200	J	3.56	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000575	U	0.000821	U	0.000411	U	0.000456	U	4.80	J
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	21.0	U	21.0	U	21.0	U	63.0	--	0.000624	U	0.000891	U	0.000446	U	0.000495	U	3.58	J
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000583	U	0.000833	U	0.000417	U	0.000463	U	3.57	J
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000563	U	0.000804	U	0.000402	U	0.000446	U	3.48	U

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)(5) NMAC, vadose zone analytical results are compared to the background soil concentration, which are provided in the approved Background Sampling Report (Arcadis 2021).
3. Detected values highlighted in grey exceed the background soil concentration.

-- = not applicable
BTEX = benzene, toluene, ethylbenzene, and xylenes
DRO = diesel range organics
GRO = gasoline range organics
ID = identification
mg/kg = milligrams per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
ORO = oil range organics
SDL = sample detection limit
TPH = total petroleum hydrocarbon

Qualifiers:
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.

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Table 4: January 2022 Vadose Zone Soil Sampling Analytical Results: Metals
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm NM-02-0012
Lea County, New Mexico

		Constituent	Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Copper		Iron		Lead	
		Method	6020A		6020A		6020A		6020A		6020A		6020A		6020A		6020A		6020A	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Soil Background Concentration	1.93		4.28		636		0.45		0.095		6.31		2.67		6,731		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 26-S-3-4-220124	1/24/2022	0.147	J	4.39	--	385	--	0.171	U	0.107	U	3.51	J	1.52	J	3,100	--	1.86	--
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.131	J	3.26	J	153	--	0.189	J	0.109	U	4.08	--	1.69	J	3,710	--	2.44	--
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.106	U	3.55	J	167	--	0.165	U	0.104	U	2.61	J	1.38	J	2,330	--	1.48	J
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.175	J	2.53	J	242	--	0.192	J	0.109	U	4.64	--	1.76	J	4,190	--	2.59	--
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.108	U	2.66	J	171	--	0.168	U	0.105	U	1.88	J	0.835	J	1,600	--	0.990	J
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.142	J	3.43	J	216	--	0.178	U	0.112	U	2.80	J	1.58	J	2,420	--	1.41	J
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.127	J	2.60	J	398	--	0.168	U	0.105	U	2.04	J	1.01	J	1,510	--	0.881	J
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.140	J	1.82	J	232	--	0.165	U	0.104	U	2.08	J	0.986	J	1,710	--	1.15	J
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.188	J	3.43	J	331	--	0.190	J	0.112	U	4.11	--	1.55	J	3,490	--	1.90	J
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.158	J	2.09	J	169	--	0.162	U	0.102	U	1.81	J	1.11	J	1,400	--	0.883	J
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.213	J	1.74	J	154	--	0.160	U	0.100	U	2.83	J	1.82	J	2,390	--	1.50	J
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.118	J	3.90	--	287	--	0.162	U	0.102	U	1.72	J	1.13	J	1,350	--	0.829	J
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.104	U	2.83	J	242	--	0.162	U	0.102	U	1.81	J	1.35	J	1,370	--	0.865	J
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	2.38	--	2.34	J	138	--	0.195	J	0.104	U	4.80	--	2.13	J	3,370	--	2.09	--
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.112	U	2.24	J	337	--	0.175	U	0.109	U	3.40	J	1.42	J	2,620	--	1.62	J
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.108	J	1.61	J	37.6	--	0.160	U	0.100	U	2.79	J	1.42	J	3,350	--	2.31	--
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.127	J	2.43	J	260	--	0.162	U	0.102	U	2.93	J	1.19	J	2,460	--	1.41	J
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.182	J	2.88	J	273	--	0.178	J	0.0967	U	2.67	J	1.49	J	2,390	--	1.64	J
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.158	J	2.85	J	143	--	0.175	U	0.109	U	2.20	J	1.23	J	1,530	--	1.04	J
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.120	J	2.06	J	201	--	0.202	J	0.107	U	4.69	--	1.93	J	3,560	--	2.39	--
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.493	J	2.93	J	46.5	--	0.467	J	0.104	U	10.3	--	2.66	J	8,850	--	4.86	--
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.282	J	1.91	J	22.3	--	0.328	J	0.102	U	6.52	--	1.83	J	5,590	--	3.42	--
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	2.71	--	2.96	J	41.5	--	0.551	J	0.105	U	10.6	--	2.90	J	8,950	--	4.80	--
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.842	J	2.01	J	139	--	0.179	J	0.105	U	4.52	--	1.72	J	3,280	--	1.77	J

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Table 4: January 2022 Vadose Zone Soil Sampling Analytical Results: Metals
Release Response Sampling Results and Action Plan - January 202
Jal Landfarm NM-02-0012
Lea County, New Mexico

		Constituent	Manganese		Mercury		Uranium		Selenium		Silver		Thallium		Zinc	
		Method	6020A		7471A		6020A		6020A		6020A		6020A		6020A	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Soil Background Concentration	58.3		0.0322		0.686		0.279		0.723		1.93		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 26-S-3-4-220124	1/24/2022	22.4	--	0.00688	J	0.535	J	0.459	U	0.147	U	0.221	U	9.41	--
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	36.8	--	0.00490	J	0.324	J	0.468	U	0.150	U	0.225	U	10.6	--
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	17.2	--	0.00645	J	0.377	J	0.443	U	0.142	U	0.213	U	7.37	--
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	39.6	--	0.00669	J	0.374	J	0.468	U	0.150	U	0.225	U	11.5	--
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	16.9	--	0.00441	J	0.316	J	0.451	U	0.144	U	0.217	U	6.05	--
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	20.7	--	0.00750	J	0.446	J	0.477	U	0.153	U	0.230	U	10.4	--
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	18.6	--	0.00632	J	0.339	J	0.451	U	0.144	U	0.217	U	9.78	--
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	17.7	--	0.00540	J	0.295	J	0.443	U	0.142	U	0.213	U	8.37	--
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	25.6	--	0.0125	J	0.538	J	0.477	U	0.153	U	0.230	U	10.2	--
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	14.1	--	0.00769	J	0.401	J	0.435	U	0.139	U	0.210	U	5.97	--
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	31.4	--	0.00519	J	0.235	J	0.428	U	0.137	U	0.206	U	8.45	--
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	13.1	--	0.00755	J	0.524	J	0.435	U	0.139	U	0.210	U	6.92	--
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	12.9	--	0.00824	J	0.306	J	0.435	U	0.139	U	0.210	U	5.44	--
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	39.9	--	0.00580	J	0.322	J	0.443	U	0.142	U	0.213	U	10.2	--
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	31.3	--	0.00679	J	0.256	J	0.468	U	0.150	U	0.225	U	8.38	--
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	162	--	0.00830	J	0.127	J	0.428	U	0.137	U	0.206	U	7.17	--
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	23.5	--	0.00573	J	0.362	J	0.435	U	0.139	U	0.210	U	8.43	--
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	25.0	--	0.0121	J	0.398	J	0.413	U	0.132	U	0.199	U	8.00	--
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	21.6	--	0.0106	J	0.354	J	0.468	U	0.150	U	0.225	U	6.82	--
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	34.1	--	0.00582	J	0.289	J	0.459	U	0.147	U	0.221	U	14.6	--
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	55.8	--	0.00696	J	0.196	J	0.443	U	0.142	U	0.213	U	21.7	--
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	37.8	--	0.00491	J	0.129	J	0.435	U	0.139	U	0.210	U	13.5	--
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	55.3	--	0.00691	J	0.208	J	0.451	U	0.144	U	0.217	U	25.1	--
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	30.6	--	0.00608	J	0.222	J	0.451	U	0.144	U	0.217	U	9.97	--

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Table 4: January 2022 Vadose Zone Soil Sampling Analytical Results: Metals
Release Response Sampling Results and Action Plan - January 202
Jal Landfarm NM-02-0012
Lea County, New Mexico

Notes:
1. Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.
2. In accordance with 19.15.36.15(E)(5) NMAC, vadose zone analytical results are compared to the background soil concentration, which are provided in the approved Background Sampling Report (Arcadis 2021).
3. Detected values highlighted in grey exceed the soil background concentration.

-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
SDL = sample detection limit

Qualifiers:
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.

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Table 5: January 2022 Vadose Zone Soil Sampling Analytical Results: VOCs
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm 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	8260B		8260B		8260B		8260B		8260B		8260B		8260B	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Soil Background 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 26-S-3-4-220124	1/24/2022	0.000491	U	0.000373	U	0.000491	U	0.000580	U	0.000491	U	0.000953	U	0.000246	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.000490	U	0.000373	U	0.000490	U	0.000578	U	0.000490	U	0.000951	U	0.000245	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.000451	U	0.000343	U	0.000451	U	0.000532	U	0.000451	U	0.000875	U	0.000226	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.000452	U	0.000344	U	0.000452	U	0.000533	U	0.000452	U	0.000877	U	0.000226	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.000422	U	0.000321	U	0.000422	U	0.000498	U	0.000422	U	0.000819	U	0.000211	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.000422	U	0.000320	U	0.000422	U	0.000497	U	0.000422	U	0.000818	U	0.000211	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.000455	U	0.000345	U	0.000455	U	0.000536	U	0.000455	U	0.000882	U	0.000227	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.000493	U	0.000375	U	0.000493	U	0.000582	U	0.000493	U	0.000957	U	0.000247	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.000488	U	0.000371	U	0.000488	U	0.000576	U	0.000488	U	0.000947	U	0.000244	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.000453	U	0.000344	U	0.000453	U	0.000534	U	0.000453	U	0.000879	U	0.000226	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.000466	U	0.000354	U	0.000466	U	0.000549	U	0.000466	U	0.000903	U	0.000233	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.000420	U	0.000319	U	0.000420	U	0.000496	U	0.00042	U	0.000815	U	0.000210	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.000466	U	0.000354	U	0.000466	U	0.000550	U	0.000466	U	0.000905	U	0.000233	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.000465	U	0.000353	U	0.000465	U	0.000548	U	0.000465	U	0.000901	U	0.000232	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.000439	U	0.000334	U	0.000439	U	0.000518	U	0.000439	U	0.000852	U	0.000220	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.000490	U	0.000373	U	0.000490	U	0.000578	U	0.000490	U	0.000951	U	0.000245	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.000490	U	0.000373	U	0.000490	U	0.000578	U	0.000490	U	0.000951	U	0.000245	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.000487	U	0.000370	U	0.000487	U	0.000575	U	0.000487	U	0.000945	U	0.000244	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.000490	U	0.000373	U	0.000490	U	0.000578	U	0.000490	U	0.000951	U	0.000245	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.000422	U	0.000320	U	0.000422	U	0.000497	U	0.000422	U	0.000818	U	0.000211	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.000456	U	0.000347	U	0.000456	U	0.000538	U	0.000456	U	0.000885	U	0.000228	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.000495	U	0.000376	U	0.000495	U	0.000584	U	0.000495	U	0.000960	U	0.000248	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.000463	U	0.000352	U	0.000463	U	0.000546	U	0.000463	U	0.000898	U	0.000231	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.000446	U	0.000339	U	0.000446	U	0.000527	U	0.000446	U	0.000866	U	0.000223	U

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Table 5: January 2022 Vadose Zone Soil Sampling Analytical Results: VOCs
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm 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	8260B		8260B		8260B		8260B		8260B		8260B		8260B	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Soil Background 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 26-S-3-4-220124	1/24/2022	0.000295	U	0.000511	U	0.000491	U	0.000314	U	0.000501	U	0.000855	U	0.000560	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.000294	U	0.000510	U	0.000490	U	0.000314	U	0.000500	U	0.000853	U	0.000559	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.000271	U	0.000469	U	0.000451	U	0.000289	U	0.000460	U	0.000785	U	0.000514	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.000271	U	0.000470	U	0.000452	U	0.000289	U	0.000461	U	0.000787	U	0.000515	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.000253	U	0.000439	U	0.000422	U	0.000270	U	0.000431	U	0.000735	U	0.000481	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.000253	U	0.000438	U	0.000422	U	0.000270	U	0.000430	U	0.000734	U	0.000481	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.000273	U	0.000473	U	0.000455	U	0.000291	U	0.000464	U	0.000791	U	0.000518	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.000296	U	0.000513	U	0.000493	U	0.000316	U	0.000503	U	0.000858	U	0.000562	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.000293	U	0.000508	U	0.000488	U	0.000313	U	0.000498	U	0.000850	U	0.000557	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.000272	U	0.000471	U	0.000453	U	0.000290	U	0.000462	U	0.000788	U	0.000516	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.000279	U	0.000484	U	0.000466	U	0.000298	U	0.000475	U	0.000810	U	0.000531	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.000252	U	0.000437	U	0.000420	U	0.000269	U	0.000429	U	0.000731	U	0.000479	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.000280	U	0.000485	U	0.000466	U	0.000299	U	0.000476	U	0.000812	U	0.000532	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.000279	U	0.000483	U	0.000465	U	0.000297	U	0.000474	U	0.000809	U	0.000530	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.000264	U	0.000457	U	0.000439	U	0.000281	U	0.000448	U	0.000764	U	0.000501	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.000294	U	0.000510	U	0.000490	U	0.000314	U	0.000500	U	0.000853	U	0.000559	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.000294	U	0.000510	U	0.000490	U	0.000314	U	0.000500	U	0.000853	U	0.000559	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.000292	U	0.000507	U	0.000487	U	0.000312	U	0.000497	U	0.000848	U	0.000556	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.000294	U	0.000510	U	0.000490	U	0.000314	U	0.000500	U	0.000853	U	0.000559	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.000253	U	0.000438	U	0.000422	U	0.000270	U	0.000430	U	0.000734	U	0.000481	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.000274	U	0.000474	U	0.000456	U	0.000292	U	0.000465	U	0.000794	U	0.000520	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.000297	U	0.000515	U	0.000495	U	0.000317	U	0.000505	U	0.000861	U	0.000564	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.000278	U	0.000481	U	0.000463	U	0.000296	U	0.000472	U	0.000806	U	0.000528	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.000268	U	0.000464	U	0.000446	U	0.000286	U	0.000455	U	0.000777	U	0.000509	U

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Table 5: January 2022 Vadose Zone Soil Sampling Analytical Results: VOCs
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm NM-02-0012
Lea County, New Mexico

		Constituent	Methylene chloride (Dichloromethane)		Methyl-t-butyl ether		Styrene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene (Trichloroethylene)		Vinyl chloride (Chloroethene)	
		Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Soil Background Concentration	0.00501		0.000611		0.000301		0.000741		0.000501		0.000281		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 26-S-3-4-220124	1/24/2022	0.00491	U	0.000599	U	0.000295	U	0.000727	U,*	0.000491	U	0.000275	U	0.000589	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.00490	U	0.000598	U	0.000294	U	0.000725	U,*	0.000490	U	0.000275	U	0.000588	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.00451	U	0.000551	U	0.000271	U	0.000668	U,*	0.000451	U	0.000253	U	0.000542	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.00452	U	0.000552	U	0.000474	J	0.000669	U,*	0.000452	U	0.000253	U	0.000542	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.00422	U	0.000515	U	0.000253	U	0.000625	U,*	0.000422	U	0.000236	U	0.000507	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.00422	U	0.000514	U	0.000253	U	0.000624	U,*	0.000422	U	0.000236	U	0.000506	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.00455	U	0.000555	U	0.000273	U	0.000673	U	0.000455	U	0.000255	U	0.000545	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.00493	U	0.000602	U	0.000296	U	0.000730	U,*	0.000493	U	0.000276	U	0.000592	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.00488	U	0.000596	U	0.000293	U	0.000723	U,*	0.000488	U	0.000273	U	0.000586	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.00453	U	0.000553	U	0.000272	U	0.000670	U,*	0.000453	U	0.000254	U	0.000543	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.00466	U	0.000568	U	0.000279	U	0.000689	U,*	0.000466	U	0.000261	U	0.000559	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.00420	U	0.000513	U	0.000252	U	0.000622	U,*	0.00042	U	0.000235	U	0.000504	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.00466	U	0.000569	U	0.000280	U	0.000690	U	0.000466	U	0.000261	U	0.000560	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.00465	U	0.000567	U	0.000279	U	0.000688	U	0.000465	U	0.000260	U	0.000558	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.00439	U	0.000536	U	0.000264	U	0.000650	U	0.000439	U	0.000246	U	0.000527	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.00490	U	0.000598	U	0.000294	U	0.000725	U	0.000490	U	0.000275	U	0.000588	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.00490	U	0.000598	U	0.000294	U	0.000725	U	0.000490	U	0.000275	U	0.000588	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.00487	U	0.000595	U	0.000292	U	0.000721	U,*	0.000487	U	0.000273	U	0.000585	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.00490	U	0.000598	U	0.000294	U	0.000725	U,*	0.000490	U	0.000275	U	0.000588	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.00422	U	0.000514	U	0.000253	U	0.000624	U	0.000422	U	0.000236	U	0.000506	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.00456	U	0.000557	U	0.000274	U	0.000675	U,*	0.000456	U	0.000255	U	0.000547	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.00495	U	0.000604	U	0.000297	U	0.000733	U,*	0.000495	U	0.000277	U	0.000594	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.00463	U	0.000565	U	0.000278	U	0.000685	U,*	0.000463	U	0.000259	U	0.000556	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.00446	U	0.000545	U	0.000268	U	0.000661	U,*	0.000446	U	0.000250	U	0.000536	U

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Table 5: January 2022 Vadose Zone Soil Sampling Analytical Results: VOCs
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm NM-02-0012
Lea County, New Mexico

		Constituent	Tribromomethane		Acrolein		Acrylonitrile		Bromodichloromethane		Bromomethane (Methyl bromide)		Chloromethane (Methyl chloride)		Trichlorofluoromethane (Freon 11)	
		Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Soil Background 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 26-S-3-4-220124	1/24/2022	0.000501	U	0.00845	U	0.00354	U	0.000196	U	0.00108	U	0.00118	U	0.000491	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.000500	U	0.00843	U	0.00353	U	0.000196	U	0.00108	U	0.00118	U	0.000490	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.000460	U	0.00776	U	0.00325	U	0.000181	U	0.000993	U	0.00108	U	0.000451	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.000461	U	0.00778	U	0.00325	U	0.000181	U	0.000995	U	0.00108	U	0.000452	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.000431	U	0.00726	U	0.00304	U	0.000169	U	0.000929	U	0.00101	U	0.000422	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.000430	U	0.00725	U	0.00304	U	0.000169	U	0.000927	U	0.00101	U	0.000422	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.000464	U	0.00782	U	0.00327	U	0.000182	U	0.00100	U	0.00109	U	0.000455	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.000503	U	0.00848	U	0.00355	U	0.000197	U	0.00108	U	0.00118	U	0.000493	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.000498	U	0.00840	U	0.00352	U	0.000195	U	0.00107	U	0.00117	U	0.000488	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.000462	U	0.00779	U	0.00326	U	0.000181	U	0.000996	U	0.00109	U	0.000453	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.000475	U	0.00801	U	0.00335	U	0.000186	U	0.00102	U	0.00112	U	0.000466	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.000429	U	0.00723	U	0.00303	U	0.000168	U	0.000924	U	0.00101	U	0.00042	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.000476	U	0.00802	U	0.00336	U	0.000187	U	0.00103	U	0.00112	U	0.000466	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.000474	U	0.00799	U	0.00335	U	0.000186	U	0.00102	U	0.00112	U	0.000465	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.000448	U	0.00756	U	0.00316	U	0.000176	U	0.000967	U	0.00105	U	0.000439	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.000500	U	0.00843	U	0.00353	U	0.000196	U	0.00108	U	0.00118	U	0.000490	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.000500	U	0.00843	U	0.00353	U	0.000196	U	0.00108	U	0.00118	U	0.000490	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.000497	U	0.00838	U	0.00351	U	0.000195	U	0.00107	U	0.00117	U	0.000487	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.000500	U	0.00843	U	0.00353	U	0.000196	U	0.00108	U	0.00118	U	0.000490	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.000430	U	0.00725	U	0.00304	U	0.000169	U	0.000927	U	0.00101	U	0.000422	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.000465	U	0.00785	U	0.00328	U	0.000182	U	0.00100	U	0.00109	U	0.000456	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.000505	U	0.00851	U	0.00356	U	0.000198	U	0.00109	U	0.00119	U	0.000495	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.000472	U	0.00796	U	0.00333	U	0.000185	U	0.00102	U	0.00111	U	0.000463	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.000455	U	0.00768	U	0.00321	U	0.000179	U	0.000982	U	0.00107	U	0.000446	U

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Table 5: January 2022 Vadose Zone Soil Sampling Analytical Results: VOCs
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm 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				8260B		8260B		8260B		8260B		8260B		8260B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				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 26-S-3-4-220124	1/24/2022	0.0187	U	0.000442	U	0.000511	U	0.000511	U	0.000511	U	0.000717	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.0186	U	0.000441	U	0.000510	U	0.000510	U	0.000510	U	0.000716	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.0171	U	0.000406	U	0.000469	U	0.000469	U	0.000469	U	0.000659	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.0172	U	0.000407	U	0.000470	U	0.000470	U	0.000470	U	0.000660	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.0160	U	0.000380	U	0.000439	U	0.000439	U	0.000439	U	0.000617	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.0160	U	0.000379	U	0.000438	U	0.000438	U	0.000438	U	0.000616	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.0173	U	0.000409	U	0.000473	U	0.000473	U	0.000473	U	0.000664	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.0187	U	0.000444	U	0.000513	U	0.000513	U	0.000513	U	0.000720	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.0186	U	0.000439	U	0.000508	U	0.000508	U	0.000508	U	0.000713	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.0172	U	0.000408	U	0.000471	U	0.000471	U	0.000471	U	0.000661	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.0177	U	0.000419	U	0.000484	U	0.000484	U	0.000484	U	0.000680	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.016	U	0.000378	U	0.000437	U	0.000437	U	0.000437	U	0.000613	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.0177	U	0.000420	U	0.000485	U	0.000485	U	0.000485	U	0.000681	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.0177	U	0.000418	U	0.000483	U	0.000483	U	0.000483	U	0.000678	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.0167	U	0.000395	U	0.000457	U	0.000457	U	0.000457	U	0.000641	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.0186	U	0.000441	U	0.000510	U	0.000510	U	0.000510	U	0.000716	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.0186	U	0.000441	U	0.000510	U	0.000510	U	0.000510	U	0.000716	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.0185	U	0.000439	U	0.000507	U	0.000507	U	0.000507	U	0.000712	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.0186	U	0.000441	U	0.000510	U	0.000510	U	0.000510	U	0.000716	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.0160	U	0.000379	U	0.000438	U	0.000438	U	0.000438	U	0.000616	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.0173	U	0.000411	U	0.000474	U	0.000474	U	0.000474	U	0.000666	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.0188	U	0.000446	U	0.000515	U	0.000515	U	0.000515	U	0.000723	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.0176	U	0.000417	U	0.000481	U	0.000481	U	0.000481	U	0.000676	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.0170	U	0.000402	U	0.000464	U	0.000464	U	0.000464	U	0.000652	U

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Table 5: January 2022 Vadose Zone Soil Sampling Analytical Results: VOCs
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm NM-02-0012
Lea County, New Mexico

Notes:
1. Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the labo
2. In accordance with 19.15.36.15(E)(5) NMAC, vadose zone analytical results are compared to the background soil concentration, which are provided in the approved Background Sampling Report (Arcadis 2021)
3. Detected values highlighted in grey exceed the soil background concentration.

-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
RPD = relative percent difference
SDL = sample detection limit
VOC = volatile organic compound

Qualifiers:
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.
* = LCS or LCSD is outside acceptance limits.

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

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Table 6: January 2022 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				1-Methyl-naphthalene		2-Methyl-Naphthalene		Acenaphthene		Acenaphthylene		Anthracene		Atrazine		Benzo(a)anthracene	
Method				8270D		8270D		8270D		8270D		8270D		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.0112		0.0190		0.0103		0.0821		0.0170		0.0370		0.0200	
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 26-S-3-4-220124	1/24/2022	0.0266	U	0.0450	U	0.0155	U	0.0147	U	0.0138	U	0.0165	U	0.0140	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	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 117-S-3-4-220124	1/24/2022	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 129-S-3-4-220124	1/24/2022	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0140	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	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 34-S-3-4-220125	1/25/2022	0.0266	U	0.0451	U	0.0155	U	0.0147	U	0.0138	U	0.0165	U	0.0140	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.0267	U	0.0453	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.0266	U	0.0451	U	0.0155	U	0.0147	U	0.0138	U	0.0165	U	0.0140	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.0267	U	0.0452	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.0266	U	0.0451	U	0.0155	U	0.0147	U	0.0138	U	0.0165	U	0.0140	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.0267	U	0.0452	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.0266	U	0.0450	U	0.0154	U	0.0147	U	0.0137	U	0.0164	U,*	0.0140	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.266	U	0.451	U	0.155	U	0.147	U	0.138	U	0.165	U,*	0.1400	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.261	U	0.442	U	0.152	U	0.144	U	0.135	U	0.161	U,*	0.1380	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.264	U	0.447	U	0.153	U	0.146	U	0.137	U	0.163	U,*	0.1390	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.262	U	0.443	U	0.152	U	0.145	U	0.136	U	0.162	U	0.1380	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.265	U	0.448	U	0.154	U	0.146	U	0.137	U	0.164	U	0.1390	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.260	U	0.439	U	0.151	U	0.144	U	0.134	U	0.161	U,*	0.1370	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.262	U	0.443	U	0.152	U	0.145	U	0.135	U	0.162	U	0.1380	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.0266	U	0.045	U	0.0154	U	0.0147	U	0.0138	U	0.0164	U	0.0140	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.265	U	0.448	U	0.154	U	0.147	U	0.137	U	0.164	U,*	0.1400	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.267	U	0.451	U	0.155	U	0.148	U	0.138	U	0.165	U	0.1410	U

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Table 6: January 2022 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm 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				8270D		8270D		8270D		8270D		8270D		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background 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 26-S-3-4-220124	1/24/2022	0.0172	U	0.0125	U	0.0153	U	0.0193	U	0.0165	U	0.0126	U	0.0146	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.0172	U	0.0126	U	0.0153	U	0.0194	U	0.0165	U	0.0127	U	0.0147	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.0172	U	0.0126	U	0.0154	U	0.0194	U	0.0165	U	0.0127	U	0.0147	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.0172	U	0.0125	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.0172	U	0.0126	U	0.0154	U	0.0194	U	0.0166	U	0.0127	U	0.0147	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.0172	U	0.0125	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.0172	U	0.0126	U	0.0153	U	0.0194	U	0.0165	U	0.0127	U	0.0147	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.0172	U	0.0125	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.0172	U	0.0126	U	0.0153	U	0.0194	U	0.0165	U	0.0127	U	0.0147	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.0171	U	0.0125	U	0.0153	U	0.0193	U	0.0164	U	0.0126	U	0.0146	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.172	U	0.125	U	0.153	U	0.193	U	0.165	U	0.127	U	0.147	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.168	U	0.123	U	0.150	U	0.189	U	0.162	U	0.124	U	0.144	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.170	U	0.124	U	0.152	U	0.191	U	0.163	U	0.125	U	0.145	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.169	U	0.123	U	0.151	U	0.190	U	0.162	U	0.124	U	0.144	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.171	U	0.125	U	0.152	U	0.192	U	0.164	U	0.126	U	0.146	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.167	U	0.122	U	0.149	U	0.188	U	0.161	U	0.123	U	0.143	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.169	U	0.123	U	0.150	U	0.190	U	0.162	U	0.124	U	0.144	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.0171	U	0.0125	U	0.0153	U	0.0193	U	0.0165	U	0.0126	U	0.0146	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.171	U	0.125	U	0.152	U	0.192	U	0.164	U	0.126	U	0.146	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.172	U	0.126	U	0.153	U	0.193	U	0.165	U	0.127	U	0.147	U

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Table 6: January 2022 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm 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				8270D		8270D		8270D		8270D		8270D		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background 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 26-S-3-4-220124	1/24/2022	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0146	U	0.0121	U	0.0164	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	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 117-S-3-4-220124	1/24/2022	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 129-S-3-4-220124	1/24/2022	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 23-S-3-4-220125	1/25/2022	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 34-S-3-4-220125	1/25/2022	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0146	U	0.0121	U	0.0164	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.0139	U	0.0135	U	0.0157	U	0.0166	U	0.0146	U	0.0122	U	0.0165	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0146	U	0.0121	U	0.0164	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0146	U	0.0121	U	0.0164	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.0138	U	0.0134	U	0.0155	U	0.0165	U	0.0145	U	0.0121	U	0.0164	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.138	U	0.134	U	0.156	U	0.165	U	0.146	U	0.121	U	0.164	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.135	U	0.131	U	0.153	U	0.162	U	0.143	U	0.119	U	0.161	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.137	U	0.133	U	0.154	U	0.164	U	0.144	U	0.120	U	0.163	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.136	U	0.132	U	0.153	U	0.163	U	0.143	U	0.119	U	0.162	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.137	U	0.133	U	0.155	U	0.164	U	0.145	U	0.120	U	0.163	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.135	U	0.131	U	0.152	U	0.161	U	0.142	U	0.118	U	0.160	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.136	U	0.132	U	0.153	U	0.162	U	0.143	U	0.119	U	0.161	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0145	U	0.0121	U	0.0164	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.137	U	0.133	U	0.155	U	0.165	U	0.145	U	0.120	U	0.164	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.138	U	0.134	U	0.156	U	0.166	U	0.146	U	0.121	U	0.165	U

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Table 6: January 2022 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm 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				8270D		8270D		8270D		8270D		8270D		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background 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 26-S-3-4-220124	1/24/2022	0.0162	U	0.0158	U	0.0174	U	0.0190	U	0.0157	U	0.0177	U	0.0151	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	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 117-S-3-4-220124	1/24/2022	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0178	U	0.0152	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0178	U	0.0152	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.0162	U	0.0159	U	0.0174	U	0.0191	U	0.0158	U	0.0178	U	0.0152	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0178	U	0.0152	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	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 180-S-3-4-220125	1/25/2022	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0178	U	0.0152	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0178	U	0.0152	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.0162	U	0.0159	U	0.0174	U	0.0191	U	0.0157	U	0.0178	U	0.0152	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0177	U	0.0152	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.0162	U	0.0159	U	0.0174	U	0.0191	U	0.0157	U	0.0178	U	0.0152	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.0161	U	0.0158	U	0.0173	U	0.0190	U	0.0157	U	0.0177	U	0.0151	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0178	U	0.0152	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.162	U	0.159	U	0.174	U	0.190	U	0.157	U	0.177	U	0.152	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.159	U	0.155	U	0.171	U	0.186	U	0.154	U	0.174	U	0.149	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.160	U	0.157	U	0.172	U	0.188	U	0.156	U	0.176	U	0.150	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.159	U	0.156	U	0.171	U	0.187	U	0.155	U	0.174	U	0.149	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.161	U	0.158	U	0.173	U	0.189	U	0.156	U	0.176	U	0.151	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.158	U	0.155	U	0.170	U	0.185	U	0.153	U	0.173	U	0.148	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.159	U	0.156	U	0.171	U	0.187	U	0.154	U	0.174	U	0.149	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.0161	U	0.0158	U	0.0174	U	0.019	U	0.0157	U	0.0177	U	0.0151	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.161	U	0.158	U	0.173	U	0.189	U	0.156	U	0.177	U	0.151	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.162	U	0.159	U	0.174	U	0.190	U	0.157	U	0.178	U	0.152	U

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Table 6: January 2022 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm 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				8270D		8270D		8270D		8270D		8270D		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background 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 26-S-3-4-220124	1/24/2022	0.0172	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0140	U	0.0127	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	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 117-S-3-4-220124	1/24/2022	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 129-S-3-4-220124	1/24/2022	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 23-S-3-4-220125	1/25/2022	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 34-S-3-4-220125	1/25/2022	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 134-S-3-4-220125	1/25/2022	0.0173	U	0.0253	U	0.022	U	0.0168	U	0.0187	U	0.0141	U	0.0127	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.0172	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.0172	U	0.0251	U	0.0218	U	0.0167	U	0.0185	U	0.0140	U	0.0127	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.172	U	0.252	U	0.219	U	0.167	U	0.186	U	0.141	U	0.127	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.169	U	0.247	U	0.214	U	0.164	U	0.182	U	0.138	U	0.124	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.171	U	0.250	U	0.217	U	0.166	U	0.184	U	0.139	U	0.126	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.170	U	0.248	U	0.215	U	0.164	U	0.183	U	0.138	U	0.125	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.171	U	0.250	U	0.217	U	0.166	U	0.185	U	0.140	U	0.126	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.168	U	0.246	U	0.213	U	0.163	U	0.181	U	0.137	U	0.124	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.169	U	0.247	U	0.215	U	0.164	U	0.182	U	0.138	U	0.125	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.0172	U	0.0252	U	0.0218	U	0.0167	U	0.0185	U	0.014	U	0.0127	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.172	U	0.251	U	0.218	U	0.166	U	0.185	U	0.140	U	0.126	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.173	U	0.252	U	0.219	U	0.167	U	0.186	U	0.141	U	0.127	U

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Table 6: January 2022 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm 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				8270D		8270D		8270D		8270D		8270D		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background 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 26-S-3-4-220124	1/24/2022	0.0127	U	0.0232	U	0.0241	U	0.0184	U	0.166	U	0.0160	U	0.0153	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.0160	U	0.0153	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.0160	U	0.0153	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.166	U	0.0160	U	0.0153	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	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 34-S-3-4-220125	1/25/2022	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.166	U	0.0160	U	0.0153	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.0128	U	0.0233	U	0.0243	U	0.0185	U	0.167	U	0.0161	U	0.0153	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.0160	U	0.0153	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.166	U	0.0160	U	0.0153	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.0160	U	0.0153	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.0127	U	0.0232	U	0.0242	U	0.0185	U	0.166	U	0.0160	U	0.0153	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.0160	U	0.0153	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.0127	U	0.0232	U	0.0241	U	0.0184	U	0.166	U	0.0160	U	0.0152	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.0160	U	0.0153	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.127	U	0.232	U	0.242	U	0.185	U	1.66	U	0.160	U	0.153	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.125	U	0.228	U	0.237	U	0.181	U	1.63	U	0.157	U	0.150	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.126	U	0.230	U	0.239	U	0.183	U	1.65	U	0.159	U	0.151	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.125	U	0.228	U	0.237	U	0.181	U	1.64	U	0.157	U	0.150	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.126	U	0.231	U	0.240	U	0.183	U	1.65	U	0.159	U	0.152	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.124	U	0.226	U	0.235	U	0.180	U	1.62	U	0.156	U	0.149	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.125	U	0.228	U	0.237	U	0.181	U	1.63	U	0.157	U	0.150	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.0127	U	0.0232	U	0.0241	U	0.0184	U	0.166	U	0.016	U	0.0152	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.126	U	0.231	U	0.240	U	0.184	U	1.65	U	0.159	U	0.152	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.127	U	0.233	U	0.242	U	0.185	U	1.67	U	0.160	U	0.153	U

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Table 6: January 2022 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm 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				8270D		8270D		8270D		8270D		8270D		8270D		8270D		8260B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background 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 26-S-3-4-220124	1/24/2022	0.0158	U	0.0121	U	0.0153	U	0.0173	U	0.0145	U	0.0138	U	0.332	U	0.000295	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000294	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000271	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000271	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000253	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.0159	U	0.0121	U	0.0154	U	0.0173	U	0.0145	U	0.0138	U	0.332	U	0.000253	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0139	U	0.334	U	0.000273	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000296	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.0159	U	0.0121	U	0.0154	U	0.0173	U	0.0145	U	0.0138	U	0.332	U	0.000293	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000272	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.0158	U	0.0121	U	0.0154	U	0.0173	U	0.0145	U	0.0138	U	0.332	U	0.000279	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000252	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.0158	U	0.0120	U	0.0153	U	0.0173	U	0.0144	U	0.0138	U	0.331	U	0.000280	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000279	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.158	U	0.121	U	0.154	U	0.173	U	0.145	U	0.138	U	3.32	U	0.000264	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.155	U	0.118	U	0.151	U	0.170	U	0.142	U	0.135	U	3.26	U	0.000294	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.157	U	0.120	U	0.152	U	0.172	U	0.143	U	0.137	U	3.29	U	0.000294	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.156	U	0.119	U	0.151	U	0.170	U	0.142	U	0.136	U	3.27	U	0.000292	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.157	U	0.120	U	0.153	U	0.172	U	0.144	U	0.137	U	3.30	U	0.000294	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.154	U	0.118	U	0.150	U	0.169	U	0.141	U	0.135	U	3.24	U	0.000253	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.156	U	0.119	U	0.151	U	0.170	U	0.142	U	0.136	U	3.26	U	0.000274	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.0158	U	0.012	U	0.0153	U	0.0173	U	0.0145	U	0.0138	U	0.332	U	0.000297	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.158	U	0.120	U	0.153	U	0.173	U	0.144	U	0.137	U	3.31	U	0.000278	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.159	U	0.121	U	0.154	U	0.174	U	0.145	U	0.138	U	3.33	U	0.000268	U

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Table 6: January 2022 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm NM-02-0012
Lea County, New Mexico

Notes:
1. Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.
2. In accordance with 19.15.36.15(E)(5) NMAC, vadose zone analytical results are compared to the background soil concentration, which are provided in the approved Background Sampling Report (Arcadis 2021).
3. Detected values highlighted in grey exceed the soil background concentration.

-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
SDL = sample detection limit
SVOC = semi-volatile organic compound

Qualifiers:
U = Analyte was not detected at or above the SDL.
* = LCS or LCSD is outside acceptance limits.

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

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Table 7: January 2022 Vadose Zone Soil Sampling Analytical Results: PCBs
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm NM-02-0012
Lea County, New Mexico

		Constituent	PCB-1016		PCB-1221		PCB-1232		PCB-1242		PCB-1248		PCB-1254		PCB-1260	
		Method	8082		8082		8082		8082		8082		8082		8082	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Soil Background Concentration	0.00542		0.00542		0.00542		0.00542		0.00542		0.00542		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 26-S-3-4-220124	1/24/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00260	U	0.00260	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00261	U	0.00261	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	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 134-S-3-4-220125	1/25/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00260	U	0.00260	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00260	U	0.00260	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00260	U	0.00260	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00260	U	0.00260	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00260	U	0.00260	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00260	U	0.00260	U

Notes:
1. Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.
2. In accordance with 19.15.36.15(E)(5) NMAC, vadose zone analytical results are compared to the background soil concentration, which are provided in the approved Background Sampling Report (Arcadis 2021)
3. Detected values highlighted in grey exceed the soil background concentration.

-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
NMAC = New Mexico Administrative Code
PCB = polychlorinated biphenyls
SDL = sample detection limit

Qualifiers:
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.

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Table 8: January 2022 Vadose Zone Soil Sampling Analytical Results: Other Constituents
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				Nitrogen, Nitrate as N		Nitrogen, Nitrite		Sulfate (SO4)		Fluoride		pH		Percent Solids		Moisture		Total Cyanide		Phenols	
Method				SW9056A		SW9056A		SW9056A		SW9056A		SW9045		Moisture		Moisture		9012A		SW8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		SU		%		%		mg/kg		mg/kg	
Background Soil Concentration				3.56		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	Result	Qualifier
Cell 17	Vadose	Cell17-Square 26-S-3-4-220124	1/24/2022	11.0	--	0.456	J	33.4	--	3.01	J	8.5	HF	--	--	--	--	0.0286	U	0.0149	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	16.0	--	0.630	J	76.7	--	4.35	J	9.4	HF	--	--	--	--	0.0294	U	0.0150	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	5.31	--	0.601	J	21.4	--	2.42	J	9.4	HF	--	--	--	--	0.0297	U	0.0150	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	15.9	--	0.593	J	50.8	--	3.41	J	8.9	HF	--	--	--	--	0.0308	U	0.0149	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	4.52	--	0.0793	J,b	29.4	--	3.56	J	9.0	HF	--	--	--	--	0.0311	J	0.0150	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	21.2	--	0.117	J,b	159	--	7.90	--	9.1	HF	--	--	--	--	0.0320	J	0.0149	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	15.0	--	0.114	J,b	62.8	--	5.04	J	9.0	HF	--	--	--	--	0.0358	J	0.0150	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	11.9	--	0.135	J,b	105	--	6.38	--	9.2	HF	--	--	--	--	0.0308	U	0.0150	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	5.90	--	0.116	J,b	126	--	6.30	--	9.0	HF	--	--	--	--	0.0370	J	0.0149	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	18.5	--	0.101	J,b	243	--	6.56	--	8.6	HF	--	--	--	--	0.0308	U	0.0150	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	5.52	--	0.152	J,b	112	--	1.01	U	8.4	HF	--	--	--	--	0.0340	J	0.0149	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	12.4	--	0.0846	J,b	174	--	4.64	J	8.6	HF	--	--	--	--	0.0301	U	0.0150	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	10.4	--	0.442	J	136	--	1.72	J	9.0	HF	--	--	--	--	0.0297	U	0.0149	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	24.7	--	0.522	J	461	--	1.96	J	8.9	HF	--	--	--	--	0.0447	J	0.0150	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	10.2	--	0.427	J	373	--	5.84	--	8.6	HF	--	--	--	--	0.0313	J	0.149	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	5.01	--	0.422	J	91.5	--	2.06	J	9.0	HF	--	--	--	--	0.0302	U	0.146	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	14.1	--	0.613	J	346	--	4.25	J	8.6	HF	--	--	--	--	0.0285	U	0.148	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	11.7	--	0.492	J	150	--	4.36	J	8.6	HF	--	--	--	--	0.0297	U	0.147	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	5.71	--	0.519	J	60.8	--	6.20	--	8.9	HF	--	--	--	--	0.0299	U	0.148	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	3.93	--	0.602	J	71.1	--	6.95	--	8.9	HF	--	--	--	--	0.0464	J	0.146	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	3.40	--	0.369	J	48.4	--	4.25	J	8.2	HF	--	--	--	--	0.0420	J	0.147	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	2.27	--	0.471	J	6.45	J	3.20	J	8.6	HF	--	--	--	--	0.0375	J	0.0149	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	2.26	--	0.302	J	11.2	--	2.36	J	7.9	HF	--	--	--	--	0.0358	J	0.149	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	7.51	--	0.644	J	88.6	--	2.54	J	8.6	HF	--	--	--	--	0.0286	U	0.150	U

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Table 8: January 2022 Vadose Zone Soil Sampling Analytical Results: Other Constituents
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				Total Dissolved Solids (TDS)		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 (PFOA)	
Method				SM2540C		8330B		8330B		8330B		EPA 6860		DV-LC-0012		DV-LC-0012	
Units				mg/L		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		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 26-S-3-4-220124	1/24/2022	503	--	0.0297	U	0.0415	U	0.0219	U	0.000651	J	0.000260	U,H	0.000214	U,H
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	213	--	0.0290	U	0.0406	U	0.0214	U	0.000162	J	0.000255	U,H	0.000209	U,H
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	158	--	0.0305	U	0.0427	U	0.0225	U	0.000824	U	0.000258	U,H	0.000212	U,H
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	201	--	0.0293	U	0.0410	U	0.0217	U	0.0000767	U	0.000271	U,H	0.000222	U,H
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	112	--	0.0296	U	0.0414	U	0.0219	U	0.0000791	U	0.000267	U,H	0.000219	U,H
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	213	--	0.0293	U	0.0411	U	0.0217	U	0.000104	J	0.000277	U,H	0.000227	U,H
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	135	--	0.0303	U	0.0424	U	0.0224	U	0.000126	J	0.000279	U,H	0.000229	U,H
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	148	--	0.0288	U	0.0404	U	0.0213	U	0.0000779	U	0.000266	U,H	0.000219	U,H
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	178	--	0.0307	U	0.0430	U	0.0227	U	0.000321	J	0.000268	U,H	0.000220	U,H
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	205	--	0.0284	U	0.0398	U	0.0210	U	0.0000786	U	0.000259	U,H	0.000213	U,H
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	206	--	0.0297	U	0.0415	U	0.0219	U	0.0000777	U	0.000270	U,H	0.000222	U,H
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	169	--	0.0300	U	0.0420	U	0.0221	U	0.0000774	U	0.000263	U,H	0.000216	U,H
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	159	--	0.0300	U	0.0420	U	0.0222	U	0.0000772	U	0.000270	U	0.000222	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	347	--	0.0291	U	0.0408	U	0.0215	U	0.0000816	U	0.000260	U	0.000213	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	238	--	0.0283	U	0.0396	U	0.0209	U	0.0000822	U	0.000262	U	0.000215	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	121	--	0.0284	U	0.0397	U	0.0210	U	0.0000784	U	0.000260	U	0.000213	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	249	--	0.0289	U	0.0404	U	0.0213	U	0.0000813	U	0.000257	U	0.000211	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	118	--	0.0300	U	0.0420	U	0.0222	U	0.0000805	U	0.000267	U	0.000219	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	114	--	0.0284	U	0.0398	U	0.0210	U	0.0000763	U	0.000264	U	0.000217	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	204	--	0.0291	U	0.0408	U	0.0215	U	0.0000800	U	0.000279	U	0.000229	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	96.0	--	0.0303	U	0.0424	U	0.0224	U	0.0000805	U	0.000272	U	0.000223	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	216	--	0.0296	U	0.0415	U	0.0219	U	0.0000792	U	0.000277	U	0.000228	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	810	--	0.0306	U	0.0429	U	0.0227	U	0.0000816	U	0.000277	U	0.000227	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	110	--	0.0286	U	0.0401	U	0.0212	U	0.0000797	U	0.000267	U	0.000220	U

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Table 8: January 2022 Vadose Zone Soil Sampling Analytical Results: Other Constituents
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm NM-02-0012
Lea County, New Mexico

Notes:
1. Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.
2. In accordance with 19.15.36.15(E)(5) NMAC, vadose zone analytical results are compared to the background soil concentration, which are provided in the approved Background Sampling Report (Arcadis 2021).
3. Detected values highlighted in grey exceed the soil background concentration.

-- = not applicable
% = percent
ID = identification
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
SDL = sample detection limit
SU = standard unit

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.
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.

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Table 9: January 2022 Vadose Zone Soil Sampling Analytical Results: Radium
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm NM-02-0012
Lea County, New Mexico

		Constituent		Radium-226		Radium-228		Combined Radium 226 + 228	
		Method		GA-01-R - Radium-226 & Other Gamma Emitters (GS)		GA-01-R - Radium-226 & Other Gamma Emitters (GS)		GA-01-R - Radium-226 & Other Gamma Emitters (GS)	
		Units		pCi/g		pCi/g		pCi/g	
		Background Soil Concentration		1.37		0.69		1.35	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 26-S-3-4-220124	1/24/2022	1.03	--	0.313	--	1.34	--
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	1.30	--	0.0739	U	1.38	--
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	1.78	--	0.0677	U	1.85	--
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.942	--	0.144	U	1.09	--
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	1.73	--	0.183	U	1.92	--
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	1.87	--	-0.207	U	1.67	--
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	1.24	--	0.0720	U	1.31	--
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.536	--	0.0790	U	0.615	--
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	1.51	--	0.211	U	1.72	--
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.909	--	0.0942	U	1.00	--
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.650	--	0.238	U	0.888	--
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	1.22	--	0.0894	U	1.30	--
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	1.35	--	0.195	U	1.54	--
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.624	--	0.199	U	0.823	--
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.473	--	0.108	U	0.581	--
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	1.16	--	0.174	U	1.34	--
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	1.24	--	0.171	U	1.41	--
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	1.55	--	0.319	--	1.87	--
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.975	--	-0.467	U	0.507	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.451	--	0.262	--	0.713	--
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.522	--	0.642	--	1.16	--
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.198	U	0.332	--	0.530	--
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.527	--	0.427	U	0.954	--
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.400	--	0.268	--	0.667	--

Notes:
1. Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.
2. In accordance with 19.15.36.15(E)(5) NMAC, vadose zone analytical results are compared to the background soil concentration, which are provided in the approved Background Sampling Report (Arcadis 2021).
3. Detected values highlighted in grey exceed the soil background concentration.

-- = not applicable
ID = identification
MDC = minimum detectable concentration
NMAC = New Mexico Administrative Code
pCi/g = average picocuries per gram

Qualifiers:
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.

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Table 10: January 2022 Vadose Zone Soil Sampling Analytical Results: Pesticides
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				Aldrin		Chlordane Gamma Technical Mixture		4,4-DDT		Dieldrin		Endosulfan		Endosulfan II		Endosulfan I	
Method				8081B		8081B		8081B		8081B		8081B		8081B		8081B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		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 26-S-3-4-220124	1/24/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.000363	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.000363	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000201	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.000363	U	0.0239	U	0.000254	U	0.000170	U	--	--	0.000372	U	0.000202	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.000363	U	0.0239	U	0.000254	U	0.000170	U	--	--	0.000373	U	0.000202	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.000362	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.000362	U	0.0238	U	0.000253	U	0.000169	U	--	--	0.000371	U	0.000201	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000201	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.000363	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.000362	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000201	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.000363	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.000361	U	0.0238	U	0.000253	U	0.000169	U	--	--	0.000371	U	0.000201	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000201	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.000363	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.000362	U	0.0238	U	0.000253	U	0.000169	U	--	--	0.000371	U	0.000201	U

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Table 10: January 2022 Vadose Zone Soil Sampling Analytical Results: Pest
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				Endrin		Heptachlor		alpha BHC (Hexachlorocyclohexane)		beta BHC (Hexachlorocyclohexane)		delta BHC (Hexachlorocyclohexane)		gamma BHC (Lindane) (Hexachlorocyclohexane)	
Method				8081B		8081B		8081B		8081B		8081B		8081B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentration				0.00198		0.00164		0.000946		0.00180		0.00176		0.00186	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 26-S-3-4-220124	1/24/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.000291	U	0.000562	U	0.000680	U	0.000473	U	0.000833	U	0.000438	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.000291	U	0.000562	U	0.000680	U	0.000474	U	0.000833	U	0.000439	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.000291	U	0.000563	U	0.000681	U	0.000474	U	0.000834	U	0.000439	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.000291	U	0.000563	U	0.000681	U	0.000474	U	0.000835	U	0.000439	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.000291	U	0.000562	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.000290	U	0.000561	U	0.000678	U	0.000473	U	0.000831	U	0.000438	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.000291	U	0.000562	U	0.000680	U	0.000473	U	0.000833	U	0.000438	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.000291	U	0.000562	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.000291	U	0.000562	U	0.000680	U	0.000474	U	0.000833	U	0.000439	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.000290	U	0.000560	U	0.000677	U	0.000472	U	0.000830	U	0.000437	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.000291	U	0.000562	U	0.000680	U	0.000474	U	0.000833	U	0.000439	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.00029	U	0.000561	U	0.000678	U	0.000472	U	0.000831	U	0.000438	U

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Table 10: January 2022 Vadose Zone Soil Sampling Analytical Results: Pest
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				Toxaphene		Prometon		Hexachlorocyclopentadiene	
Method				8081B		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg	
Background Soil Concentration				0.0260		0.0120		0.111	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 26-S-3-4-220124	1/24/2022	0.0113	U	0.0119	U	0.0152	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.0113	U	0.0117	U	0.0152	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.0113	U	0.0119	U	0.0152	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.0113	U	0.0119	U	0.0152	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.0113	U	0.0117	U	0.0152	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.0113	U	0.0118	U	0.0152	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.0113	U	0.0116	U	0.0152	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.0113	U	0.0119	U	0.0152	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.0113	U	0.0118	U	0.0152	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.0113	U	0.0119	U	0.0152	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.0113	U	0.0119	U	0.0152	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.0113	U	0.0117	U	0.0152	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.0113	U	0.0117	U	0.0151	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.0113	U	0.0119	U	0.0152	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.0113	U	0.0120	U	0.152	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.0113	U	0.0119	U	0.149	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.0113	U	0.0118	U	0.150	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.0113	U	0.0117	U	0.149	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.0113	U	0.0118	U	0.151	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.0113	U	0.0593	U	0.148	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.0113	U	0.0118	U	0.149	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.0113	U	0.0117	U	0.0151	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.0113	U	0.0118	U	0.151	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.0113	U	0.0119	U	0.152	U

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Table 10: January 2022 Vadose Zone Soil Sampling Analytical Results: Pesticides
Release Response Sampling Results and Action Plan - January 2022
Jal Landfarm NM-02-0012
Lea County, New Mexico

Notes:
1. Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.
2. In accordance with 19.15.36.15(E)(5) NMAC, vadose zone analytical results are compared to the background soil concentration, which are provided in the approved Background Sampling Report (Arcadis 2021).
3. Detected values highlighted in grey exceed the soil background concentration.

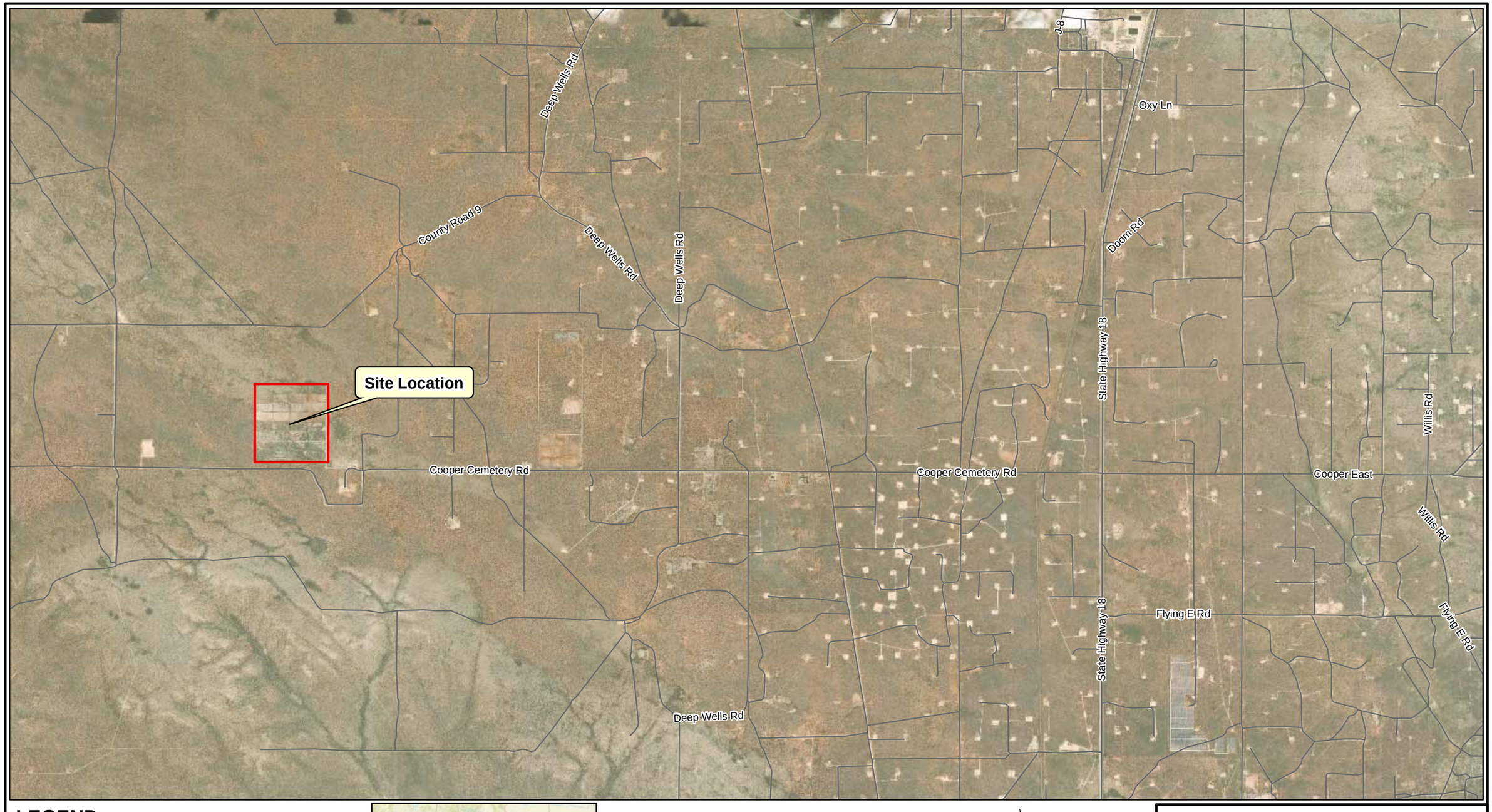
-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
NMAC = New Mexico Administrative Code
SDL = sample detection limit

Qualifiers:
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.

Figures

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PATH: Z:\GISPROJECTS_ENVCHEVRON_JAL-LANDFARM\GIS\MXD\FIGURE-1_JAL LANDFARM_2018.MXD SAVED: 1/28/2019 BY: AVI00976

LEGEND

Landfarm Boundary



0 3,000 6,000

SCALE IN FEET

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM NM-02-0012
LEA COUNTY, NEW MEXICO

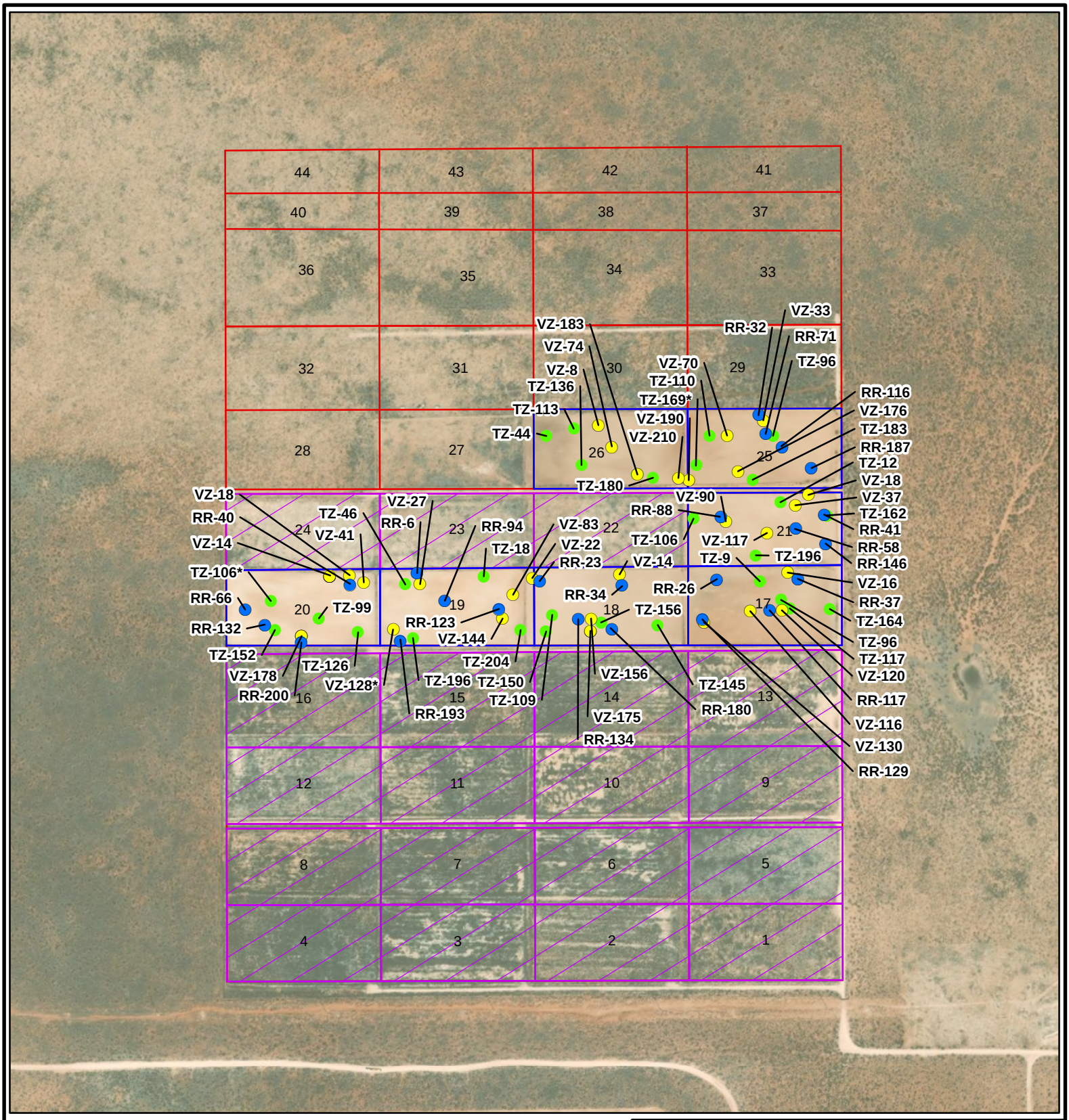
RELEASE RESPONSE SAMPLING RESULTS AND ACTION PLAN

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS\MXD\2022-05\FIG_2_DEC2021_RELEASESAMPLES.MXD SAVED: 5/17/2022 BY: LDRUM



LEGEND

- Release Response Sample Locations (January 2022)
- Vadose Zone Sample Locations (December 2021)
- Treatment Zone Sample Locations (December 2021)
- * The coordinates were inadvertently not collected. The sample location is approximate.
- Active Landfarm Cell
- Inactive Landfarm Cell
- Developed Cell - Inactive

0 560 1,120

SCALE IN FEET

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM NM-02-0012
LEA COUNTY, NEW MEXICO

RELEASE RESPONSE SAMPLING RESULTS AND ACTION PLAN

DECEMBER 2021 AND RELEASE RESPONSE SAMPLE LOCATIONS

ARCADIS

FIGURE 2

Appendix A

December 2021 Laboratory Reports

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Xenco, Stafford
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-17264-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
12/27/2021 10:18:34 AM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 860-17264-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS 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
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.
¤	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. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-17264-1

Laboratory: Eurofins Xenco, Stafford

Narrative

Job Narrative
860-17264-1

Receipt
The samples were received on 12/14/2021 10:22 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 3.4°C

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside the upper control limit: Cell17-Square16-S-3-4-211213 (860-17264-1), Cell17-Square120-S-3-4-211213 (860-17264-2), Cell18-Square175-S-3-4-211213 (860-17264-5), Cell18-Square14-S-3-4-211213 (860-17264-7) and Cell19-Square83-S-3-4-211213 (860-17264-9). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) samples: (860-17264-A-1-C MS) and (860-17264-A-1-D MSD). The parent sample's surrogate recovery was also outside limits, however no target analytes in were detected. The MS/MSD sample has been qualified and reported.

Method 8015MOD_NM: The surrogate recovery for Laboratory Control Spiked sample and Laboratory Control Spiked sample Duplicate (LCS/LCSD) associated with preparation batch 860-35489 and analytical batch 860-35534 was outside the upper control limits. Spiked analytes were recovered within limits, therefore data was accepted.

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.

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

Detection Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square16-S-3-4-211213 Lab Sample ID: 860-17264-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	37.7		10.7	3.78	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell17-Square120-S-3-4-211213 Lab Sample ID: 860-17264-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.26	J	10.5	3.71	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell17-Square116-S-3-4-211213 Lab Sample ID: 860-17264-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10.5	J	10.8	3.82	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell17-Square130-S-3-4-211213 Lab Sample ID: 860-17264-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	75.9		12.1	4.30	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell18-Square175-S-3-4-211213 Lab Sample ID: 860-17264-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.09	J	11.0	3.89	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell18-Square156-S-3-4-211213 Lab Sample ID: 860-17264-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.77	J	11.1	3.94	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell18-Square14-S-3-4-211213 Lab Sample ID: 860-17264-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.000275	J	0.00114	0.000235	mg/Kg	1	☼	8260C	Total/NA
Toluene	0.00161	J	0.00568	0.00114	mg/Kg	1	☼	8260C	Total/NA
Chloride	43.0		11.5	4.08	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell18-Square22-S-3-4-211213 Lab Sample ID: 860-17264-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.90	J	13.6	4.81	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell19-Square83-S-3-4-211213 Lab Sample ID: 860-17264-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.37	J	11.4	4.04	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell19-Square144-S-3-4-211213 Lab Sample ID: 860-17264-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.20	J	10.8	3.81	mg/Kg	1	☼	9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Stafford

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square16-S-3-4-211213 Lab Sample ID: 860-17264-1

Date Collected: 12/13/21 10:00 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 92.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000225	U	0.00109	0.000225	mg/Kg	☼	12/16/21 21:50	12/18/21 02:52	1
Toluene	0.00109	U	0.00543	0.00109	mg/Kg	☼	12/16/21 21:50	12/18/21 02:52	1
Ethylbenzene	0.000365	U	0.00109	0.000365	mg/Kg	☼	12/16/21 21:50	12/18/21 02:52	1
m,p-Xylenes	0.000869	U	0.00217	0.000869	mg/Kg	☼	12/16/21 21:50	12/18/21 02:52	1
o-Xylene	0.00107	U	0.00109	0.00107	mg/Kg	☼	12/16/21 21:50	12/18/21 02:52	1
Xylenes, Total	0.00107	U	0.00217	0.00107	mg/Kg	☼	12/16/21 21:50	12/18/21 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*	*12/16/21 21:50*	*12/18/21 02:52*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*12/16/21 21:50*	*12/18/21 02:52*	*1*
Dibromofluoromethane (Surr)	*90*		*53 - 142*	*12/16/21 21:50*	*12/18/21 02:52*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*	*12/16/21 21:50*	*12/18/21 02:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.9	U	54.3	22.9	mg/Kg	☼	12/23/21 13:20	12/23/21 17:38	1
Diesel Range Organics (Over C10-C28)	22.9	U	54.3	22.9	mg/Kg	☼	12/23/21 13:20	12/23/21 17:38	1
OII Range Organics (Over C28-C36)	22.9	U	54.3	22.9	mg/Kg	☼	12/23/21 13:20	12/23/21 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*X*	*65 - 130*	*12/23/21 13:20*	*12/23/21 17:38*	*1*
o-Terphenyl (Surr)	*138*	*X*	*65 - 130*	*12/23/21 13:20*	*12/23/21 17:38*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.7**		10.7	3.78	mg/Kg	☼	12/21/21 19:01	12/22/21 04:21	1

Client Sample ID: Cell17-Square120-S-3-4-211213 Lab Sample ID: 860-17264-2

Date Collected: 12/13/21 10:20 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 93.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000219	U	0.00106	0.000219	mg/Kg	☼	12/16/21 21:50	12/18/21 03:13	1
Toluene	0.00106	U	0.00530	0.00106	mg/Kg	☼	12/16/21 21:50	12/18/21 03:13	1
Ethylbenzene	0.000356	U	0.00106	0.000356	mg/Kg	☼	12/16/21 21:50	12/18/21 03:13	1
m,p-Xylenes	0.000848	U	0.00212	0.000848	mg/Kg	☼	12/16/21 21:50	12/18/21 03:13	1
o-Xylene	0.00104	U	0.00106	0.00104	mg/Kg	☼	12/16/21 21:50	12/18/21 03:13	1
Xylenes, Total	0.00104	U	0.00212	0.00104	mg/Kg	☼	12/16/21 21:50	12/18/21 03:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*	*12/16/21 21:50*	*12/18/21 03:13*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*	*12/16/21 21:50*	*12/18/21 03:13*	*1*
Dibromofluoromethane (Surr)	*92*		*53 - 142*	*12/16/21 21:50*	*12/18/21 03:13*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*	*12/16/21 21:50*	*12/18/21 03:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.5	U	53.4	22.5	mg/Kg	☼	12/23/21 13:20	12/23/21 18:31	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square120-S-3-4-211213 Lab Sample ID: 860-17264-2

Date Collected: 12/13/21 10:20 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 93.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	22.5	U	53.4	22.5	mg/Kg	☼	12/23/21 13:20	12/23/21 18:31	1
OII Range Organics (Over C28-C36)	22.5	U	53.4	22.5	mg/Kg	☼	12/23/21 13:20	12/23/21 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*65 - 130*	*12/23/21 13:20*	*12/23/21 18:31*	*1*
o-Terphenyl (Surr)	*132*	*X*	*65 - 130*	*12/23/21 13:20*	*12/23/21 18:31*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.26**	**J**	10.5	3.71	mg/Kg	☼	12/21/21 19:01	12/22/21 04:34	1

Client Sample ID: Cell17-Square116-S-3-4-211213 Lab Sample ID: 860-17264-3

Date Collected: 12/13/21 10:50 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 92.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000222	U	0.00107	0.000222	mg/Kg	☼	12/16/21 21:50	12/18/21 03:34	1
Toluene	0.00107	U	0.00537	0.00107	mg/Kg	☼	12/16/21 21:50	12/18/21 03:34	1
Ethylbenzene	0.000361	U	0.00107	0.000361	mg/Kg	☼	12/16/21 21:50	12/18/21 03:34	1
m,p-Xylenes	0.000860	U	0.00215	0.000860	mg/Kg	☼	12/16/21 21:50	12/18/21 03:34	1
o-Xylene	0.00106	U	0.00107	0.00106	mg/Kg	☼	12/16/21 21:50	12/18/21 03:34	1
Xylenes, Total	0.00106	U	0.00215	0.00106	mg/Kg	☼	12/16/21 21:50	12/18/21 03:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*56 - 150*	*12/16/21 21:50*	*12/18/21 03:34*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*12/16/21 21:50*	*12/18/21 03:34*	*1*
Dibromofluoromethane (Surr)	*94*		*53 - 142*	*12/16/21 21:50*	*12/18/21 03:34*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*12/16/21 21:50*	*12/18/21 03:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.6	U	53.6	22.6	mg/Kg	☼	12/23/21 13:20	12/23/21 18:50	1
Diesel Range Organics (Over C10-C28)	22.6	U	53.6	22.6	mg/Kg	☼	12/23/21 13:20	12/23/21 18:50	1
OII Range Organics (Over C28-C36)	22.6	U	53.6	22.6	mg/Kg	☼	12/23/21 13:20	12/23/21 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*65 - 130*	*12/23/21 13:20*	*12/23/21 18:50*	*1*
o-Terphenyl (Surr)	*125*		*65 - 130*	*12/23/21 13:20*	*12/23/21 18:50*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.5**	**J**	10.8	3.82	mg/Kg	☼	12/21/21 19:01	12/22/21 04:47	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square130-S-3-4-211213 Lab Sample ID: 860-17264-4

Date Collected: 12/13/21 11:05 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 83.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000246	U	0.00119	0.000246	mg/Kg	☼	12/16/21 21:50	12/18/21 03:55	1
Toluene	0.00119	U	0.00594	0.00119	mg/Kg	☼	12/16/21 21:50	12/18/21 03:55	1
Ethylbenzene	0.000399	U	0.00119	0.000399	mg/Kg	☼	12/16/21 21:50	12/18/21 03:55	1
m,p-Xylenes	0.000950	U	0.00237	0.000950	mg/Kg	☼	12/16/21 21:50	12/18/21 03:55	1
o-Xylene	0.00117	U	0.00119	0.00117	mg/Kg	☼	12/16/21 21:50	12/18/21 03:55	1
Xylenes, Total	0.00117	U	0.00237	0.00117	mg/Kg	☼	12/16/21 21:50	12/18/21 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*56 - 150*	*12/16/21 21:50*	*12/18/21 03:55*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*	*12/16/21 21:50*	*12/18/21 03:55*	*1*
Dibromofluoromethane (Surr)	*93*		*53 - 142*	*12/16/21 21:50*	*12/18/21 03:55*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*12/16/21 21:50*	*12/18/21 03:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	25.1	U	59.4	25.1	mg/Kg	☼	12/23/21 13:20	12/23/21 19:07	1
Diesel Range Organics (Over C10-C28)	25.1	U	59.4	25.1	mg/Kg	☼	12/23/21 13:20	12/23/21 19:07	1
OII Range Organics (Over C28-C36)	25.1	U	59.4	25.1	mg/Kg	☼	12/23/21 13:20	12/23/21 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*65 - 130*	*12/23/21 13:20*	*12/23/21 19:07*	*1*
o-Terphenyl (Surr)	*126*		*65 - 130*	*12/23/21 13:20*	*12/23/21 19:07*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**75.9**		12.1	4.30	mg/Kg	☼	12/21/21 19:01	12/22/21 05:00	1

Client Sample ID: Cell18-Square175-S-3-4-211213 Lab Sample ID: 860-17264-5

Date Collected: 12/13/21 11:30 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 91.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000224	U	0.00108	0.000224	mg/Kg	☼	12/16/21 21:50	12/18/21 04:16	1
Toluene	0.00108	U	0.00541	0.00108	mg/Kg	☼	12/16/21 21:50	12/18/21 04:16	1
Ethylbenzene	0.000363	U	0.00108	0.000363	mg/Kg	☼	12/16/21 21:50	12/18/21 04:16	1
m,p-Xylenes	0.000866	U	0.00217	0.000866	mg/Kg	☼	12/16/21 21:50	12/18/21 04:16	1
o-Xylene	0.00107	U	0.00108	0.00107	mg/Kg	☼	12/16/21 21:50	12/18/21 04:16	1
Xylenes, Total	0.00107	U	0.00217	0.00107	mg/Kg	☼	12/16/21 21:50	12/18/21 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*56 - 150*	*12/16/21 21:50*	*12/18/21 04:16*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*12/16/21 21:50*	*12/18/21 04:16*	*1*
Dibromofluoromethane (Surr)	*86*		*53 - 142*	*12/16/21 21:50*	*12/18/21 04:16*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*12/16/21 21:50*	*12/18/21 04:16*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.1	U	54.7	23.1	mg/Kg	☼	12/23/21 13:20	12/23/21 19:25	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square175-S-3-4-211213 Lab Sample ID: 860-17264-5

Date Collected: 12/13/21 11:30 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 91.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	23.1	U	54.7	23.1	mg/Kg	☼	12/23/21 13:20	12/23/21 19:25	1
Oil Range Organics (Over C28-C36)	23.1	U	54.7	23.1	mg/Kg	☼	12/23/21 13:20	12/23/21 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*65 - 130*	*12/23/21 13:20*	*12/23/21 19:25*	*1*
o-Terphenyl (Surr)	*134*	*X*	*65 - 130*	*12/23/21 13:20*	*12/23/21 19:25*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.09**	**J**	11.0	3.89	mg/Kg	☼	12/21/21 19:01	12/22/21 05:12	1

Client Sample ID: Cell18-Square156-S-3-4-211213 Lab Sample ID: 860-17264-6

Date Collected: 12/13/21 12:00 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 90.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000227	U	0.00110	0.000227	mg/Kg	☼	12/16/21 21:50	12/18/21 04:37	1
Toluene	0.00110	U	0.00548	0.00110	mg/Kg	☼	12/16/21 21:50	12/18/21 04:37	1
Ethylbenzene	0.000368	U	0.00110	0.000368	mg/Kg	☼	12/16/21 21:50	12/18/21 04:37	1
m,p-Xylenes	0.000876	U	0.00219	0.000876	mg/Kg	☼	12/16/21 21:50	12/18/21 04:37	1
o-Xylene	0.00108	U	0.00110	0.00108	mg/Kg	☼	12/16/21 21:50	12/18/21 04:37	1
Xylenes, Total	0.00108	U	0.00219	0.00108	mg/Kg	☼	12/16/21 21:50	12/18/21 04:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*	*12/16/21 21:50*	*12/18/21 04:37*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 152*	*12/16/21 21:50*	*12/18/21 04:37*	*1*
Dibromofluoromethane (Surr)	*92*		*53 - 142*	*12/16/21 21:50*	*12/18/21 04:37*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*	*12/16/21 21:50*	*12/18/21 04:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.3	U	55.3	23.3	mg/Kg	☼	12/23/21 13:20	12/23/21 20:01	1
Diesel Range Organics (Over C10-C28)	23.3	U	55.3	23.3	mg/Kg	☼	12/23/21 13:20	12/23/21 20:01	1
Oil Range Organics (Over C28-C36)	23.3	U	55.3	23.3	mg/Kg	☼	12/23/21 13:20	12/23/21 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*65 - 130*	*12/23/21 13:20*	*12/23/21 20:01*	*1*
o-Terphenyl (Surr)	*128*		*65 - 130*	*12/23/21 13:20*	*12/23/21 20:01*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.77**	**J**	11.1	3.94	mg/Kg	☼	12/21/21 19:01	12/22/21 05:25	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square14-S-3-4-211213 Lab Sample ID: 860-17264-7

Date Collected: 12/13/21 12:20 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 87.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000275**	**J**	0.00114	0.000235	mg/Kg	☼	12/16/21 21:50	12/19/21 15:21	1
Toluene	**0.00161**	**J**	0.00568	0.00114	mg/Kg	☼	12/16/21 21:50	12/19/21 15:21	1
Ethylbenzene	0.000382	U	0.00114	0.000382	mg/Kg	☼	12/16/21 21:50	12/19/21 15:21	1
m,p-Xylenes	0.000909	U	0.00227	0.000909	mg/Kg	☼	12/16/21 21:50	12/19/21 15:21	1
o-Xylene	0.00112	U	0.00114	0.00112	mg/Kg	☼	12/16/21 21:50	12/19/21 15:21	1
Xylenes, Total	0.00112	U	0.00227	0.00112	mg/Kg	☼	12/16/21 21:50	12/19/21 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*	*12/16/21 21:50*	*12/19/21 15:21*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*	*12/16/21 21:50*	*12/19/21 15:21*	*1*
Dibromofluoromethane (Surr)	*94*		*53 - 142*	*12/16/21 21:50*	*12/19/21 15:21*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*	*12/16/21 21:50*	*12/19/21 15:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.3	U	57.6	24.3	mg/Kg	☼	12/23/21 13:20	12/23/21 20:19	1
Diesel Range Organics (Over C10-C28)	24.3	U	57.6	24.3	mg/Kg	☼	12/23/21 13:20	12/23/21 20:19	1
OII Range Organics (Over C28-C36)	24.3	U	57.6	24.3	mg/Kg	☼	12/23/21 13:20	12/23/21 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*65 - 130*	*12/23/21 13:20*	*12/23/21 20:19*	*1*
o-Terphenyl (Surr)	*132*	*X*	*65 - 130*	*12/23/21 13:20*	*12/23/21 20:19*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**43.0**		11.5	4.08	mg/Kg	☼	12/21/21 19:01	12/22/21 06:04	1

Client Sample ID: Cell18-Square22-S-3-4-211213 Lab Sample ID: 860-17264-8

Date Collected: 12/13/21 12:40 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 75.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000275	U	0.00133	0.000275	mg/Kg	☼	12/21/21 11:01	12/21/21 14:28	1
Toluene	0.00133	U	0.00664	0.00133	mg/Kg	☼	12/21/21 11:01	12/21/21 14:28	1
Ethylbenzene	0.000446	U	0.00133	0.000446	mg/Kg	☼	12/21/21 11:01	12/21/21 14:28	1
m,p-Xylenes	0.00106	U	0.00266	0.00106	mg/Kg	☼	12/21/21 11:01	12/21/21 14:28	1
o-Xylene	0.00131	U	0.00133	0.00131	mg/Kg	☼	12/21/21 11:01	12/21/21 14:28	1
Xylenes, Total	0.00131	U	0.00266	0.00131	mg/Kg	☼	12/21/21 11:01	12/21/21 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*56 - 150*	*12/21/21 11:01*	*12/21/21 14:28*	*1*
4-Bromofluorobenzene (Surr)	*110*		*68 - 152*	*12/21/21 11:01*	*12/21/21 14:28*	*1*
Dibromofluoromethane (Surr)	*100*		*53 - 142*	*12/21/21 11:01*	*12/21/21 14:28*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*12/21/21 11:01*	*12/21/21 14:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	28.0	U	66.3	28.0	mg/Kg	☼	12/23/21 13:20	12/23/21 20:37	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square22-S-3-4-211213 Lab Sample ID: 860-17264-8

Date Collected: 12/13/21 12:40 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 75.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	28.0	U	66.3	28.0	mg/Kg	☼	12/23/21 13:20	12/23/21 20:37	1
Oil Range Organics (Over C28-C36)	28.0	U	66.3	28.0	mg/Kg	☼	12/23/21 13:20	12/23/21 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*65 - 130*	*12/23/21 13:20*	*12/23/21 20:37*	*1*
o-Terphenyl (Surr)	*129*		*65 - 130*	*12/23/21 13:20*	*12/23/21 20:37*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.90**	**J**	13.6	4.81	mg/Kg	☼	12/21/21 19:01	12/22/21 06:42	1

Client Sample ID: Cell19-Square83-S-3-4-211213 Lab Sample ID: 860-17264-9

Date Collected: 12/13/21 13:30 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 89.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000231	U	0.00112	0.000231	mg/Kg	☼	12/16/21 21:50	12/19/21 16:03	1
Toluene	0.00112	U	0.00558	0.00112	mg/Kg	☼	12/16/21 21:50	12/19/21 16:03	1
Ethylbenzene	0.000375	U	0.00112	0.000375	mg/Kg	☼	12/16/21 21:50	12/19/21 16:03	1
m,p-Xylenes	0.000893	U	0.00223	0.000893	mg/Kg	☼	12/16/21 21:50	12/19/21 16:03	1
o-Xylene	0.00110	U	0.00112	0.00110	mg/Kg	☼	12/16/21 21:50	12/19/21 16:03	1
Xylenes, Total	0.00110	U	0.00223	0.00110	mg/Kg	☼	12/16/21 21:50	12/19/21 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*	*12/16/21 21:50*	*12/19/21 16:03*	*1*
4-Bromofluorobenzene (Surr)	*113*		*68 - 152*	*12/16/21 21:50*	*12/19/21 16:03*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*12/16/21 21:50*	*12/19/21 16:03*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*12/16/21 21:50*	*12/19/21 16:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.5	U	55.6	23.5	mg/Kg	☼	12/23/21 13:20	12/23/21 20:55	1
Diesel Range Organics (Over C10-C28)	23.5	U	55.6	23.5	mg/Kg	☼	12/23/21 13:20	12/23/21 20:55	1
Oil Range Organics (Over C28-C36)	23.5	U	55.6	23.5	mg/Kg	☼	12/23/21 13:20	12/23/21 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*X*	*65 - 130*	*12/23/21 13:20*	*12/23/21 20:55*	*1*
o-Terphenyl (Surr)	*143*	*X*	*65 - 130*	*12/23/21 13:20*	*12/23/21 20:55*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.37**	**J**	11.4	4.04	mg/Kg	☼	12/21/21 19:01	12/22/21 06:55	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square144-S-3-4-211213 **Lab Sample ID: 860-17264-10**
Date Collected: 12/13/21 13:50 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 94.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000218	U	0.00105	0.000218	mg/Kg	☼	12/16/21 21:50	12/19/21 16:24	1
Toluene	0.00105	U	0.00526	0.00105	mg/Kg	☼	12/16/21 21:50	12/19/21 16:24	1
Ethylbenzene	0.000353	U	0.00105	0.000353	mg/Kg	☼	12/16/21 21:50	12/19/21 16:24	1
m,p-Xylenes	0.000842	U	0.00211	0.000842	mg/Kg	☼	12/16/21 21:50	12/19/21 16:24	1
o-Xylene	0.00104	U	0.00105	0.00104	mg/Kg	☼	12/16/21 21:50	12/19/21 16:24	1
Xylenes, Total	0.00104	U	0.00211	0.00104	mg/Kg	☼	12/16/21 21:50	12/19/21 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*	*12/16/21 21:50*	*12/19/21 16:24*	*1*
4-Bromofluorobenzene (Surr)	*111*		*68 - 152*	*12/16/21 21:50*	*12/19/21 16:24*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*	*12/16/21 21:50*	*12/19/21 16:24*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*12/16/21 21:50*	*12/19/21 16:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.2	U	52.7	22.2	mg/Kg	☼	12/23/21 13:20	12/23/21 21:13	1
Diesel Range Organics (Over C10-C28)	22.2	U	52.7	22.2	mg/Kg	☼	12/23/21 13:20	12/23/21 21:13	1
OII Range Organics (Over C28-C36)	22.2	U	52.7	22.2	mg/Kg	☼	12/23/21 13:20	12/23/21 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*65 - 130*	*12/23/21 13:20*	*12/23/21 21:13*	*1*
o-Terphenyl (Surr)	*130*		*65 - 130*	*12/23/21 13:20*	*12/23/21 21:13*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.20**	**J**	10.8	3.81	mg/Kg	☼	12/21/21 19:01	12/22/21 07:08	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
860-17264-1	Cell17-Square16-S-3-4-211213	104	101	90	106
860-17264-2	Cell17-Square120-S-3-4-211213	97	96	92	107
860-17264-3	Cell17-Square116-S-3-4-211213	96	101	94	105
860-17264-4	Cell17-Square130-S-3-4-211213	98	96	93	103
860-17264-5	Cell18-Square175-S-3-4-211213	92	101	86	103
860-17264-6	Cell18-Square156-S-3-4-211213	99	94	92	107
860-17264-7	Cell18-Square14-S-3-4-211213	100	96	94	107
860-17264-8	Cell18-Square22-S-3-4-211213	85	110	100	99
860-17264-9	Cell19-Square83-S-3-4-211213	101	113	98	105
860-17264-10	Cell19-Square144-S-3-4-211213	104	111	99	105
LCS 860-34813/3	Lab Control Sample	100	95	94	101
LCS 860-34855/3	Lab Control Sample	115	93	96	96
LCS 860-35073/3	Lab Control Sample	93	99	100	98
LCSD 860-34813/4	Lab Control Sample Dup	101	95	98	98
LCSD 860-34855/4	Lab Control Sample Dup	99	134	97	92
LCSD 860-35073/4	Lab Control Sample Dup	96	101	102	95
MB 860-34813/8	Method Blank	101	98	89	100
MB 860-34855/7	Method Blank	97	95	90	105
MB 860-35073/8	Method Blank	101	103	105	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(65-130)	(65-130)
860-17264-1	Cell17-Square16-S-3-4-211213	132 X	138 X
860-17264-1 MS	Cell17-Square16-S-3-4-211213	133 X	116
860-17264-1 MSD	Cell17-Square16-S-3-4-211213	138 X	121
860-17264-2	Cell17-Square120-S-3-4-211213	128	132 X
860-17264-3	Cell17-Square116-S-3-4-211213	118	125
860-17264-4	Cell17-Square130-S-3-4-211213	122	126
860-17264-5	Cell18-Square175-S-3-4-211213	127	134 X
860-17264-6	Cell18-Square156-S-3-4-211213	124	128
860-17264-7	Cell18-Square14-S-3-4-211213	125	132 X
860-17264-8	Cell18-Square22-S-3-4-211213	122	129

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (65-130)	OTPH1 (65-130)								
860-17264-9	Cell19-Square83-S-3-4-211213	136 X	143 X								
860-17264-10	Cell19-Square144-S-3-4-211213	124	130								
LCS 860-35489/2-A	Lab Control Sample	133 X	118								
LCSD 860-35489/3-A	Lab Control Sample Dup	134 X	117								
MB 860-35489/1-A	Method Blank	123	127								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-34813/8 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 34813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			12/18/21 02:11	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			12/18/21 02:11	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			12/18/21 02:11	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			12/18/21 02:11	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			12/18/21 02:11	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			12/18/21 02:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*		*12/18/21 02:11*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*		*12/18/21 02:11*	*1*
Dibromofluoromethane (Surr)	*89*		*53 - 142*		*12/18/21 02:11*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*12/18/21 02:11*	*1*

Lab Sample ID: LCS 860-34813/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 34813

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.04863		mg/Kg		97	66 - 142		
Toluene			0.0500	0.05159		mg/Kg		103	74 - 130		
Ethylbenzene			0.0500	0.05623		mg/Kg		112	80 - 130		
m,p-Xylenes			0.0500	0.05203		mg/Kg		104	78 - 130		
o-Xylene			0.0500	0.05544		mg/Kg		111	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*
4-Bromofluorobenzene (Surr)	*95*		*68 - 152*
Dibromofluoromethane (Surr)	*94*		*53 - 142*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 860-34813/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 34813

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0500	0.04548		mg/Kg		91	66 - 142	7	25
Toluene			0.0500	0.04963		mg/Kg		99	74 - 130	4	25
Ethylbenzene			0.0500	0.05449		mg/Kg		109	80 - 130	3	25
m,p-Xylenes			0.0500	0.05017		mg/Kg		100	78 - 130	4	25
o-Xylene			0.0500	0.05427		mg/Kg		109	79 - 130	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*
4-Bromofluorobenzene (Surr)	*95*		*68 - 152*
Dibromofluoromethane (Surr)	*98*		*53 - 142*
Toluene-d8 (Surr)	*98*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-34855/7 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 34855

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			12/19/21 13:57	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			12/19/21 13:57	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			12/19/21 13:57	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			12/19/21 13:57	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			12/19/21 13:57	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			12/19/21 13:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*		*12/19/21 13:57*	*1*
4-Bromofluorobenzene (Surr)	*95*		*68 - 152*		*12/19/21 13:57*	*1*
Dibromofluoromethane (Surr)	*90*		*53 - 142*		*12/19/21 13:57*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*12/19/21 13:57*	*1*

Lab Sample ID: LCS 860-34855/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 34855

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.04399		mg/Kg		88	66 - 142		
Toluene			0.0500	0.04545		mg/Kg		91	74 - 130		
Ethylbenzene			0.0500	0.05008		mg/Kg		100	80 - 130		
m,p-Xylenes			0.0500	0.04749		mg/Kg		95	78 - 130		
o-Xylene			0.0500	0.05139		mg/Kg		103	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*56 - 150*
4-Bromofluorobenzene (Surr)	*93*		*68 - 152*
Dibromofluoromethane (Surr)	*96*		*53 - 142*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 860-34855/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 34855

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0500	0.04247		mg/Kg		85	66 - 142	4	25
Toluene			0.0500	0.04283		mg/Kg		86	74 - 130	6	25
Ethylbenzene			0.0500	0.04735		mg/Kg		95	80 - 130	6	25
m,p-Xylenes			0.0500	0.04500		mg/Kg		90	78 - 130	5	25
o-Xylene			0.0500	0.04909		mg/Kg		98	79 - 130	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*
4-Bromofluorobenzene (Surr)	*134*		*68 - 152*
Dibromofluoromethane (Surr)	*97*		*53 - 142*
Toluene-d8 (Surr)	*92*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-35073/8 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			12/21/21 11:38	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			12/21/21 11:38	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			12/21/21 11:38	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			12/21/21 11:38	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			12/21/21 11:38	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			12/21/21 11:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*		*12/21/21 11:38*	*1*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*		*12/21/21 11:38*	*1*
Dibromofluoromethane (Surr)	*105*		*53 - 142*		*12/21/21 11:38*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*12/21/21 11:38*	*1*

Lab Sample ID: LCS 860-35073/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05201		mg/Kg		104	66 - 142
Toluene	0.0500	0.05105		mg/Kg		102	74 - 130
Ethylbenzene	0.0500	0.05312		mg/Kg		106	80 - 130
m,p-Xylenes	0.0500	0.05413		mg/Kg		108	78 - 130
o-Xylene	0.0500	0.05403		mg/Kg		108	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*56 - 150*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*
Dibromofluoromethane (Surr)	*100*		*53 - 142*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 860-35073/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.04853		mg/Kg		97	66 - 142	7	25
Toluene	0.0500	0.04620		mg/Kg		92	74 - 130	10	25
Ethylbenzene	0.0500	0.04836		mg/Kg		97	80 - 130	9	25
m,p-Xylenes	0.0500	0.04898		mg/Kg		98	78 - 130	10	25
o-Xylene	0.0500	0.04834		mg/Kg		97	79 - 130	11	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*56 - 150*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*
Dibromofluoromethane (Surr)	*102*		*53 - 142*
Toluene-d8 (Surr)	*95*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-35489/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35534 **Prep Batch: 35489**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		12/23/21 13:20	12/23/21 16:44	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		12/23/21 13:20	12/23/21 16:44	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		12/23/21 13:20	12/23/21 16:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*65 - 130*	*12/23/21 13:20*	*12/23/21 16:44*	*1*
o-Terphenyl (Surr)	*127*		*65 - 130*	*12/23/21 13:20*	*12/23/21 16:44*	*1*

Lab Sample ID: LCS 860-35489/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35534 **Prep Batch: 35489**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	994	1081		mg/Kg		109	70 - 135
Diesel Range Organics (Over C10-C28)	994	1070		mg/Kg		108	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*133*	*X*	*65 - 130*
o-Terphenyl (Surr)	*118*		*65 - 130*

Lab Sample ID: LCSD 860-35489/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35534 **Prep Batch: 35489**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	994	1007		mg/Kg		101	70 - 135	7	35
Diesel Range Organics (Over C10-C28)	994	1085		mg/Kg		109	70 - 135	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*134*	*X*	*65 - 130*
o-Terphenyl (Surr)	*117*		*65 - 130*

Lab Sample ID: 860-17264-1 MS **Client Sample ID: Cell17-Square16-S-3-4-211213**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35534 **Prep Batch: 35489**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	22.9	U	1080	1214		mg/Kg	☼	112	70 - 135
Diesel Range Organics (Over C10-C28)	22.9	U	1080	1194		mg/Kg	☼	110	70 - 135

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: 860-17264-1 MS **Client Sample ID: Cell17-Square16-S-3-4-211213**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35534 **Prep Batch: 35489**

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	133	X	65 - 130
o-Terphenyl (Surr)	116		65 - 130

Lab Sample ID: 860-17264-1 MSD **Client Sample ID: Cell17-Square16-S-3-4-211213**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35534 **Prep Batch: 35489**

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	22.9	U	1080	1123		mg/Kg	☼	104	70 - 135	8	35
Diesel Range Organics (Over C10-C28)	22.9	U	1080	1233		mg/Kg	☼	114	70 - 135	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	138	X	65 - 130
o-Terphenyl (Surr)	121		65 - 130

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-35181/28-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35123 **Prep Batch: 35181**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		12/21/21 19:01	12/22/21 01:34	1

Lab Sample ID: LCS 860-35181/29-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35123 **Prep Batch: 35181**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	101.1		mg/Kg		101	80 - 120

Lab Sample ID: LCSD 860-35181/30-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35123 **Prep Batch: 35181**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	100.2		mg/Kg		100	80 - 120	1	20

Lab Sample ID: 860-17264-6 MS **Client Sample ID: Cell18-Square156-S-3-4-211213**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35123 **Prep Batch: 35181**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.77	J	112	116.7		mg/Kg	☼	99	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-17264-6 MSD **Client Sample ID: Cell18-Square156-S-3-4-211213**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35123 **Prep Batch: 35181**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.77	J	111	115.7		mg/Kg	☼	99	80 - 120	1	20

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 34665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17264-1	Cell17-Square16-S-3-4-211213	Total/NA	Solid	5030C	
860-17264-2	Cell17-Square120-S-3-4-211213	Total/NA	Solid	5030C	
860-17264-3	Cell17-Square116-S-3-4-211213	Total/NA	Solid	5030C	
860-17264-4	Cell17-Square130-S-3-4-211213	Total/NA	Solid	5030C	
860-17264-5	Cell18-Square175-S-3-4-211213	Total/NA	Solid	5030C	
860-17264-6	Cell18-Square156-S-3-4-211213	Total/NA	Solid	5030C	
860-17264-7	Cell18-Square14-S-3-4-211213	Total/NA	Solid	5030C	
860-17264-9	Cell19-Square83-S-3-4-211213	Total/NA	Solid	5030C	
860-17264-10	Cell19-Square144-S-3-4-211213	Total/NA	Solid	5030C	

Analysis Batch: 34813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17264-1	Cell17-Square16-S-3-4-211213	Total/NA	Solid	8260C	34665
860-17264-2	Cell17-Square120-S-3-4-211213	Total/NA	Solid	8260C	34665
860-17264-3	Cell17-Square116-S-3-4-211213	Total/NA	Solid	8260C	34665
860-17264-4	Cell17-Square130-S-3-4-211213	Total/NA	Solid	8260C	34665
860-17264-5	Cell18-Square175-S-3-4-211213	Total/NA	Solid	8260C	34665
860-17264-6	Cell18-Square156-S-3-4-211213	Total/NA	Solid	8260C	34665
MB 860-34813/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-34813/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-34813/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 34855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17264-7	Cell18-Square14-S-3-4-211213	Total/NA	Solid	8260C	34665
860-17264-9	Cell19-Square83-S-3-4-211213	Total/NA	Solid	8260C	34665
860-17264-10	Cell19-Square144-S-3-4-211213	Total/NA	Solid	8260C	34665
MB 860-34855/7	Method Blank	Total/NA	Solid	8260C	
LCS 860-34855/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-34855/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 35073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17264-8	Cell18-Square22-S-3-4-211213	Total/NA	Solid	8260C	35130
MB 860-35073/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-35073/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-35073/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 35130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17264-8	Cell18-Square22-S-3-4-211213	Total/NA	Solid	5030C	

GC Semi VOA

Prep Batch: 35489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17264-1	Cell17-Square16-S-3-4-211213	Total/NA	Solid	8015NM Prep	
860-17264-2	Cell17-Square120-S-3-4-211213	Total/NA	Solid	8015NM Prep	
860-17264-3	Cell17-Square116-S-3-4-211213	Total/NA	Solid	8015NM Prep	
860-17264-4	Cell17-Square130-S-3-4-211213	Total/NA	Solid	8015NM Prep	
860-17264-5	Cell18-Square175-S-3-4-211213	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Prep Batch: 35489 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17264-6	Cell18-Square156-S-3-4-211213	Total/NA	Solid	8015NM Prep	
860-17264-7	Cell18-Square14-S-3-4-211213	Total/NA	Solid	8015NM Prep	
860-17264-8	Cell18-Square22-S-3-4-211213	Total/NA	Solid	8015NM Prep	
860-17264-9	Cell19-Square83-S-3-4-211213	Total/NA	Solid	8015NM Prep	
860-17264-10	Cell19-Square144-S-3-4-211213	Total/NA	Solid	8015NM Prep	
MB 860-35489/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-35489/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-35489/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
860-17264-1 MS	Cell17-Square16-S-3-4-211213	Total/NA	Solid	8015NM Prep	
860-17264-1 MSD	Cell17-Square16-S-3-4-211213	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17264-1	Cell17-Square16-S-3-4-211213	Total/NA	Solid	8015B NM	35489
860-17264-2	Cell17-Square120-S-3-4-211213	Total/NA	Solid	8015B NM	35489
860-17264-3	Cell17-Square116-S-3-4-211213	Total/NA	Solid	8015B NM	35489
860-17264-4	Cell17-Square130-S-3-4-211213	Total/NA	Solid	8015B NM	35489
860-17264-5	Cell18-Square175-S-3-4-211213	Total/NA	Solid	8015B NM	35489
860-17264-6	Cell18-Square156-S-3-4-211213	Total/NA	Solid	8015B NM	35489
860-17264-7	Cell18-Square14-S-3-4-211213	Total/NA	Solid	8015B NM	35489
860-17264-8	Cell18-Square22-S-3-4-211213	Total/NA	Solid	8015B NM	35489
860-17264-9	Cell19-Square83-S-3-4-211213	Total/NA	Solid	8015B NM	35489
860-17264-10	Cell19-Square144-S-3-4-211213	Total/NA	Solid	8015B NM	35489
MB 860-35489/1-A	Method Blank	Total/NA	Solid	8015B NM	35489
LCS 860-35489/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35489
LCSD 860-35489/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35489
860-17264-1 MS	Cell17-Square16-S-3-4-211213	Total/NA	Solid	8015B NM	35489
860-17264-1 MSD	Cell17-Square16-S-3-4-211213	Total/NA	Solid	8015B NM	35489

HPLC/IC

Analysis Batch: 35123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17264-1	Cell17-Square16-S-3-4-211213	Total/NA	Solid	9056A	35181
860-17264-2	Cell17-Square120-S-3-4-211213	Total/NA	Solid	9056A	35181
860-17264-3	Cell17-Square116-S-3-4-211213	Total/NA	Solid	9056A	35181
860-17264-4	Cell17-Square130-S-3-4-211213	Total/NA	Solid	9056A	35181
860-17264-5	Cell18-Square175-S-3-4-211213	Total/NA	Solid	9056A	35181
860-17264-6	Cell18-Square156-S-3-4-211213	Total/NA	Solid	9056A	35181
860-17264-7	Cell18-Square14-S-3-4-211213	Total/NA	Solid	9056A	35181
860-17264-8	Cell18-Square22-S-3-4-211213	Total/NA	Solid	9056A	35181
860-17264-9	Cell19-Square83-S-3-4-211213	Total/NA	Solid	9056A	35181
860-17264-10	Cell19-Square144-S-3-4-211213	Total/NA	Solid	9056A	35181
MB 860-35181/28-A	Method Blank	Total/NA	Solid	9056A	35181
LCS 860-35181/29-A	Lab Control Sample	Total/NA	Solid	9056A	35181
LCSD 860-35181/30-A	Lab Control Sample Dup	Total/NA	Solid	9056A	35181
860-17264-6 MS	Cell18-Square156-S-3-4-211213	Total/NA	Solid	9056A	35181
860-17264-6 MSD	Cell18-Square156-S-3-4-211213	Total/NA	Solid	9056A	35181

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Prep Batch: 35181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17264-1	Cell17-Square16-S-3-4-211213	Total/NA	Solid	300_Prep	
860-17264-2	Cell17-Square120-S-3-4-211213	Total/NA	Solid	300_Prep	
860-17264-3	Cell17-Square116-S-3-4-211213	Total/NA	Solid	300_Prep	
860-17264-4	Cell17-Square130-S-3-4-211213	Total/NA	Solid	300_Prep	
860-17264-5	Cell18-Square175-S-3-4-211213	Total/NA	Solid	300_Prep	
860-17264-6	Cell18-Square156-S-3-4-211213	Total/NA	Solid	300_Prep	
860-17264-7	Cell18-Square14-S-3-4-211213	Total/NA	Solid	300_Prep	
860-17264-8	Cell18-Square22-S-3-4-211213	Total/NA	Solid	300_Prep	
860-17264-9	Cell19-Square83-S-3-4-211213	Total/NA	Solid	300_Prep	
860-17264-10	Cell19-Square144-S-3-4-211213	Total/NA	Solid	300_Prep	
MB 860-35181/28-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-35181/29-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-35181/30-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-17264-6 MS	Cell18-Square156-S-3-4-211213	Total/NA	Solid	300_Prep	
860-17264-6 MSD	Cell18-Square156-S-3-4-211213	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 34312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17264-1	Cell17-Square16-S-3-4-211213	Total/NA	Solid	Moisture - 2540	
860-17264-2	Cell17-Square120-S-3-4-211213	Total/NA	Solid	Moisture - 2540	
860-17264-3	Cell17-Square116-S-3-4-211213	Total/NA	Solid	Moisture - 2540	
860-17264-4	Cell17-Square130-S-3-4-211213	Total/NA	Solid	Moisture - 2540	
860-17264-5	Cell18-Square175-S-3-4-211213	Total/NA	Solid	Moisture - 2540	
860-17264-6	Cell18-Square156-S-3-4-211213	Total/NA	Solid	Moisture - 2540	
860-17264-7	Cell18-Square14-S-3-4-211213	Total/NA	Solid	Moisture - 2540	
860-17264-8	Cell18-Square22-S-3-4-211213	Total/NA	Solid	Moisture - 2540	
860-17264-9	Cell19-Square83-S-3-4-211213	Total/NA	Solid	Moisture - 2540	
860-17264-10	Cell19-Square144-S-3-4-211213	Total/NA	Solid	Moisture - 2540	
MB 860-34312/1	Method Blank	Total/NA	Solid	Moisture - 2540	
860-17264-1 DU	Cell17-Square16-S-3-4-211213	Total/NA	Solid	Moisture - 2540	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square16-S-3-4-211213 Lab Sample ID: 860-17264-1

Date Collected: 12/13/21 10:00 **Matrix: Solid**
Date Received: 12/14/21 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34312	12/15/21 08:27	BM	XEN STF

Client Sample ID: Cell17-Square16-S-3-4-211213 Lab Sample ID: 860-17264-1

Date Collected: 12/13/21 10:00 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 92.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	34813	12/18/21 02:52	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35489	12/23/21 13:20	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35534	12/23/21 17:38	T1S	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 04:21	ANP	XEN STF

Client Sample ID: Cell17-Square120-S-3-4-211213 Lab Sample ID: 860-17264-2

Date Collected: 12/13/21 10:20 **Matrix: Solid**
Date Received: 12/14/21 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34312	12/15/21 08:27	BM	XEN STF

Client Sample ID: Cell17-Square120-S-3-4-211213 Lab Sample ID: 860-17264-2

Date Collected: 12/13/21 10:20 **Matrix: Solid**
Date Received: 12/14/21 10:22 **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			5.04 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	34813	12/18/21 03:13	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35489	12/23/21 13:20	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35534	12/23/21 18:31	T1S	XEN STF
Total/NA	Prep	300_Prep			5.09 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 04:34	ANP	XEN STF

Client Sample ID: Cell17-Square116-S-3-4-211213 Lab Sample ID: 860-17264-3

Date Collected: 12/13/21 10:50 **Matrix: Solid**
Date Received: 12/14/21 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34312	12/15/21 08:27	BM	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square116-S-3-4-211213 Lab Sample ID: 860-17264-3

Date Collected: 12/13/21 10:50 **Matrix: Solid**
Date Received: 12/14/21 10:22 **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	5030C			5.03 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	34813	12/18/21 03:34	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	35489	12/23/21 13:20	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35534	12/23/21 18:50	T1S	XEN STF
Total/NA	Prep	300_Prep			5.01 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 04:47	ANP	XEN STF

Client Sample ID: Cell17-Square130-S-3-4-211213 Lab Sample ID: 860-17264-4

Date Collected: 12/13/21 11:05 **Matrix: Solid**
Date Received: 12/14/21 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34312	12/15/21 08:27	BM	XEN STF

Client Sample ID: Cell17-Square130-S-3-4-211213 Lab Sample ID: 860-17264-4

Date Collected: 12/13/21 11:05 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 83.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	34813	12/18/21 03:55	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	35489	12/23/21 13:20	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35534	12/23/21 19:07	T1S	XEN STF
Total/NA	Prep	300_Prep			4.92 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 05:00	ANP	XEN STF

Client Sample ID: Cell18-Square175-S-3-4-211213 Lab Sample ID: 860-17264-5

Date Collected: 12/13/21 11:30 **Matrix: Solid**
Date Received: 12/14/21 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34312	12/15/21 08:27	BM	XEN STF

Client Sample ID: Cell18-Square175-S-3-4-211213 Lab Sample ID: 860-17264-5

Date Collected: 12/13/21 11:30 **Matrix: Solid**
Date Received: 12/14/21 10:22 **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			5.05 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	34813	12/18/21 04:16	CSP	XEN STF
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	35489	12/23/21 13:20	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35534	12/23/21 19:25	T1S	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 05:12	ANP	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square156-S-3-4-211213 Lab Sample ID: 860-17264-6

Date Collected: 12/13/21 12:00 **Matrix: Solid**
Date Received: 12/14/21 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34312	12/15/21 08:27	BM	XEN STF

Client Sample ID: Cell18-Square156-S-3-4-211213 Lab Sample ID: 860-17264-6

Date Collected: 12/13/21 12:00 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 90.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	34813	12/18/21 04:37	CSP	XEN STF
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	35489	12/23/21 13:20	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35534	12/23/21 20:01	T1S	XEN STF
Total/NA	Prep	300_Prep			4.95 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 05:25	ANP	XEN STF

Client Sample ID: Cell18-Square14-S-3-4-211213 Lab Sample ID: 860-17264-7

Date Collected: 12/13/21 12:20 **Matrix: Solid**
Date Received: 12/14/21 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34312	12/15/21 08:27	BM	XEN STF

Client Sample ID: Cell18-Square14-S-3-4-211213 Lab Sample ID: 860-17264-7

Date Collected: 12/13/21 12:20 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 87.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	34855	12/19/21 15:21	CSP	XEN STF
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	35489	12/23/21 13:20	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35534	12/23/21 20:19	T1S	XEN STF
Total/NA	Prep	300_Prep			4.98 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 06:04	ANP	XEN STF

Client Sample ID: Cell18-Square22-S-3-4-211213 Lab Sample ID: 860-17264-8

Date Collected: 12/13/21 12:40 **Matrix: Solid**
Date Received: 12/14/21 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34312	12/15/21 08:27	BM	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square22-S-3-4-211213 Lab Sample ID: 860-17264-8

Date Collected: 12/13/21 12:40 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 75.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	35130	12/21/21 11:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35073	12/21/21 14:28	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	35489	12/23/21 13:20	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35534	12/23/21 20:37	T1S	XEN STF
Total/NA	Prep	300_Prep			4.91 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 06:42	ANP	XEN STF

Client Sample ID: Cell19-Square83-S-3-4-211213 Lab Sample ID: 860-17264-9

Date Collected: 12/13/21 13:30 **Matrix: Solid**
Date Received: 12/14/21 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34312	12/15/21 08:27	BM	XEN STF

Client Sample ID: Cell19-Square83-S-3-4-211213 Lab Sample ID: 860-17264-9

Date Collected: 12/13/21 13:30 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 89.1**

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	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	34855	12/19/21 16:03	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	35489	12/23/21 13:20	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35534	12/23/21 20:55	T1S	XEN STF
Total/NA	Prep	300_Prep			4.92 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 06:55	ANP	XEN STF

Client Sample ID: Cell19-Square144-S-3-4-211213 Lab Sample ID: 860-17264-10

Date Collected: 12/13/21 13:50 **Matrix: Solid**
Date Received: 12/14/21 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34312	12/15/21 08:27	BM	XEN STF

Client Sample ID: Cell19-Square144-S-3-4-211213 Lab Sample ID: 860-17264-10

Date Collected: 12/13/21 13:50 **Matrix: Solid**
Date Received: 12/14/21 10:22 **Percent Solids: 94.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.01 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	34855	12/19/21 16:24	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35489	12/23/21 13:20	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35534	12/23/21 21:13	T1S	XEN STF
Total/NA	Prep	300_Prep			4.90 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 07:08	ANP	XEN STF

Lab Chronicle

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

Job ID: 860-17264-1

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17264-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Xenco, Stafford

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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	1306	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Method Summary

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

Job ID: 860-17264-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
9056A	Anions, Ion Chromatography	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
5030C	Purge and Trap	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF

Protocol References:

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

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.

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 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: 860-17264-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-17264-1	Cell17-Square16-S-3-4-211213	Solid	12/13/21 10:00	12/14/21 10:22
860-17264-2	Cell17-Square120-S-3-4-211213	Solid	12/13/21 10:20	12/14/21 10:22
860-17264-3	Cell17-Square116-S-3-4-211213	Solid	12/13/21 10:50	12/14/21 10:22
860-17264-4	Cell17-Square130-S-3-4-211213	Solid	12/13/21 11:05	12/14/21 10:22
860-17264-5	Cell18-Square175-S-3-4-211213	Solid	12/13/21 11:30	12/14/21 10:22
860-17264-6	Cell18-Square156-S-3-4-211213	Solid	12/13/21 12:00	12/14/21 10:22
860-17264-7	Cell18-Square14-S-3-4-211213	Solid	12/13/21 12:20	12/14/21 10:22
860-17264-8	Cell18-Square22-S-3-4-211213	Solid	12/13/21 12:40	12/14/21 10:22
860-17264-9	Cell19-Square83-S-3-4-211213	Solid	12/13/21 13:30	12/14/21 10:22
860-17264-10	Cell19-Square144-S-3-4-211213	Solid	12/13/21 13:50	12/14/21 10:22

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

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

Chain of Custody Record

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Client Information	Sampler: Daniel McGee	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-5911-2069.1
Client Contact: Alison Schaffer	Phone: 432-999-2980	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin:	Page: Page
Company: ARCADIS U.S. Inc.	PWSID:	Analysis Requested		Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			Preservation Codes: A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)
City: Highlands Ranch	TAT Requested (days): Standard			
State, Zip: CO, 80129-2377	Compliance Project: Δ Yes Δ No			
Phone: 303-710-7537(Tel)	PO #: Purchase Order Requested			
Email: Alison.Schaffer@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			Other:

Temp 3.4 IR ID HOU-272
C/F +0.0
Corrected Temp: 3.4

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B BTEX	8015MOD_NM GRO/DRO/ORO	9056A_Chloride	moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
Cell 17 - Square 16-S-3-4-211213	12-13-21	1000	G	Solid			X	X	X	X	4	
Cell 17 - Square 120-S-3-4-211213	12-13-21	1020	G	Solid			X	X	X	X	4	
Cell 17 - Square 116-S-3-4-211213	12-13-21	1050	G	Solid			X	X	X	X	4	
Cell 17 - Square 130-S-3-4-211213	12-13-21	1105	G	Solid			X	X	X	X	4	
Cell 18 - Square 175-S-3-4-211213	12-13-21	1130	G	Solid			X	X	X	X	4	
Cell 18 - Square 156-S-3-4-211213	12-13-21	1200	G	Solid			X	X	X	X	4	
Cell 18 Square 14-S-3-4-211213	12-13-21	1220	G	Solid			X	X	X	X	4	
Cell 18 - Square 22-S-3-4-211213	12-13-21	1240	G	Solid			X	X	X	X	4	
Cell 19 - Square 83-S-3-4-211213	12-13-21	1330	G	Solid			X	X	X	X	4	
Cell 19 - Square 144-S-3-4-211213	~~12-13-21~~ 12-13-21	1350	G	Solid			X	X	X	X	4	
				Solid								

860-17264 Chain of Custody

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

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

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12-13-21 1720	Arcadis			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/14/21 1022	Company EX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-17264-1

Login Number: 17264 **List Source: Eurofins Xenco, Stafford**
List Number: 1
Creator: Rubio, Yuri

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	3.4
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	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-17264-1

Login Number: 17264 **List Source: Eurofins Xenco, Stafford**
List Number: 2
Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
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	3.4
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.	N/A	Check done at department level as required.

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ANALYTICAL REPORT

Eurofins Xenco, Stafford
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-17303-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
12/29/2021 10:08:04 AM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS 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
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.
¤	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. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-17303-1

Laboratory: Eurofins Xenco, Stafford

Narrative

Job Narrative
860-17303-1

Receipt
The samples were received on 12/15/2021 10:21 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C

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

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

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

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

Detection Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square128-S-3-4-211214 Lab Sample ID: 860-17303-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.32	J	10.2	3.62	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell19-Square27-S-3-4-211214 Lab Sample ID: 860-17303-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00116	J	0.00536	0.00107	mg/Kg	1	☼	8260C	Total/NA
Chloride	14.4		10.6	3.75	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell20-Square18-S-3-4-211214 Lab Sample ID: 860-17303-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00123	J	0.00573	0.00115	mg/Kg	1	☼	8260C	Total/NA
Chloride	6.77	J	11.3	3.98	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell20-Square41-S-3-4-211214 Lab Sample ID: 860-17303-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00154	J	0.00539	0.00108	mg/Kg	1	☼	8260C	Total/NA
m,p-Xylenes	0.000877	J	0.00215	0.000862	mg/Kg	1	☼	8260C	Total/NA
Chloride	14.2		10.7	3.80	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell20-Square14-S-3-4-211214 Lab Sample ID: 860-17303-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.000240	J	0.00106	0.000219	mg/Kg	1	☼	8260C	Total/NA
Toluene	0.00168	J	0.00530	0.00106	mg/Kg	1	☼	8260C	Total/NA
m,p-Xylenes	0.00106	J	0.00212	0.000848	mg/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.00106	J	0.00212	0.00104	mg/Kg	1	☼	8260C	Total/NA
Chloride	7.26	J	10.6	3.76	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell20-Square170-S-3-4-211214 Lab Sample ID: 860-17303-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.05	J	10.5	3.72	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell21-Square18-S-3-4-211214 Lab Sample ID: 860-17303-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00119	J	0.00529	0.00106	mg/Kg	1	☼	8260C	Total/NA
Chloride	8.13	J	10.7	3.80	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell21-Square37-S-3-4-211214 Lab Sample ID: 860-17303-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (Over C10-C28)	31.3	J	53.4	22.5	mg/Kg	1	☼	8015B NM	Total/NA
Chloride	7.40	J	10.9	3.86	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell21-Square117-S-3-4-211214 Lab Sample ID: 860-17303-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00111	J	0.00530	0.00106	mg/Kg	1	☼	8260C	Total/NA
Chloride	8.18	J	10.9	3.85	mg/Kg	1	☼	9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Stafford

Released to Imaging: 10/28/2022 10:00:56 AM

Detection Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square90-S-3-4-211214 Lab Sample ID: 860-17303-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.44	J	11.0	3.90	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell25-Square190-S-3-4-211214 Lab Sample ID: 860-17303-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.24	J	10.8	3.83	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell25-Square176-S-3-4-211214 Lab Sample ID: 860-17303-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.31	J	10.6	3.76	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell25-Square33-S-3-4-211214 Lab Sample ID: 860-17303-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13.7		11.0	3.90	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell25-Square70-S-3-4-211214 Lab Sample ID: 860-17303-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.15	J	11.4	4.03	mg/Kg	1	☼	9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square128-S-3-4-211214 Lab Sample ID: 860-17303-1

Date Collected: 12/14/21 09:10 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 96.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000213	U	0.00103	0.000213	mg/Kg	☼	12/16/21 21:50	12/23/21 17:18	1
Toluene	0.00103	U	0.00514	0.00103	mg/Kg	☼	12/16/21 21:50	12/23/21 17:18	1
Ethylbenzene	0.000345	U	0.00103	0.000345	mg/Kg	☼	12/16/21 21:50	12/23/21 17:18	1
m,p-Xylenes	0.000822	U	0.00205	0.000822	mg/Kg	☼	12/16/21 21:50	12/23/21 17:18	1
o-Xylene	0.00101	U	0.00103	0.00101	mg/Kg	☼	12/16/21 21:50	12/23/21 17:18	1
Xylenes, Total	0.00101	U	0.00205	0.00101	mg/Kg	☼	12/16/21 21:50	12/23/21 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*56 - 150*	*12/16/21 21:50*	*12/23/21 17:18*	*1*
4-Bromofluorobenzene (Surr)	*115*		*68 - 152*	*12/16/21 21:50*	*12/23/21 17:18*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*	*12/16/21 21:50*	*12/23/21 17:18*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*12/16/21 21:50*	*12/23/21 17:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.6	U	51.2	21.6	mg/Kg	☼	12/27/21 14:17	12/28/21 18:32	1
Diesel Range Organics (Over C10-C28)	21.6	U	51.2	21.6	mg/Kg	☼	12/27/21 14:17	12/28/21 18:32	1
OII Range Organics (Over C28-C36)	21.6	U	51.2	21.6	mg/Kg	☼	12/27/21 14:17	12/28/21 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*65 - 130*	*12/27/21 14:17*	*12/28/21 18:32*	*1*
o-Terphenyl (Surr)	*112*		*65 - 130*	*12/27/21 14:17*	*12/28/21 18:32*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.32**	**J**	10.2	3.62	mg/Kg	☼	12/21/21 19:01	12/22/21 07:21	1

Client Sample ID: Cell19-Square27-S-3-4-211214 Lab Sample ID: 860-17303-2

Date Collected: 12/14/21 10:00 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 92.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000222	U	0.00107	0.000222	mg/Kg	☼	12/16/21 21:50	12/23/21 17:39	1
Toluene	**0.00116**	**J**	0.00536	0.00107	mg/Kg	☼	12/16/21 21:50	12/23/21 17:39	1
Ethylbenzene	0.000360	U	0.00107	0.000360	mg/Kg	☼	12/16/21 21:50	12/23/21 17:39	1
m,p-Xylenes	0.000858	U	0.00214	0.000858	mg/Kg	☼	12/16/21 21:50	12/23/21 17:39	1
o-Xylene	0.00106	U	0.00107	0.00106	mg/Kg	☼	12/16/21 21:50	12/23/21 17:39	1
Xylenes, Total	0.00106	U	0.00214	0.00106	mg/Kg	☼	12/16/21 21:50	12/23/21 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*56 - 150*	*12/16/21 21:50*	*12/23/21 17:39*	*1*
4-Bromofluorobenzene (Surr)	*109*		*68 - 152*	*12/16/21 21:50*	*12/23/21 17:39*	*1*
Dibromofluoromethane (Surr)	*95*		*53 - 142*	*12/16/21 21:50*	*12/23/21 17:39*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*12/16/21 21:50*	*12/23/21 17:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.5	U	53.4	22.5	mg/Kg	☼	12/27/21 14:17	12/28/21 19:25	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square27-S-3-4-211214 Lab Sample ID: 860-17303-2

Date Collected: 12/14/21 10:00 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 92.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	22.5	U	53.4	22.5	mg/Kg	☼	12/27/21 14:17	12/28/21 19:25	1
OII Range Organics (Over C28-C36)	22.5	U	53.4	22.5	mg/Kg	☼	12/27/21 14:17	12/28/21 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*65 - 130*	*12/27/21 14:17*	*12/28/21 19:25*	*1*
o-Terphenyl (Surr)	*112*		*65 - 130*	*12/27/21 14:17*	*12/28/21 19:25*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.4**		10.6	3.75	mg/Kg	☼	12/21/21 19:01	12/22/21 07:34	1

Client Sample ID: Cell20-Square18-S-3-4-211214 Lab Sample ID: 860-17303-3

Date Collected: 12/14/21 10:30 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 87.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000237	U	0.00115	0.000237	mg/Kg	☼	12/16/21 21:50	12/23/21 13:20	1
Toluene	**0.00123**	**J**	0.00573	0.00115	mg/Kg	☼	12/16/21 21:50	12/23/21 13:20	1
Ethylbenzene	0.000385	U	0.00115	0.000385	mg/Kg	☼	12/16/21 21:50	12/23/21 13:20	1
m,p-Xylenes	0.000917	U	0.00229	0.000917	mg/Kg	☼	12/16/21 21:50	12/23/21 13:20	1
o-Xylene	0.00113	U	0.00115	0.00113	mg/Kg	☼	12/16/21 21:50	12/23/21 13:20	1
Xylenes, Total	0.00113	U	0.00229	0.00113	mg/Kg	☼	12/16/21 21:50	12/23/21 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*	*12/16/21 21:50*	*12/23/21 13:20*	*1*
4-Bromofluorobenzene (Surr)	*109*		*68 - 152*	*12/16/21 21:50*	*12/23/21 13:20*	*1*
Dibromofluoromethane (Surr)	*106*		*53 - 142*	*12/16/21 21:50*	*12/23/21 13:20*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*12/16/21 21:50*	*12/23/21 13:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.0	U	56.9	24.0	mg/Kg	☼	12/27/21 14:17	12/28/21 19:43	1
Diesel Range Organics (Over C10-C28)	24.0	U	56.9	24.0	mg/Kg	☼	12/27/21 14:17	12/28/21 19:43	1
OII Range Organics (Over C28-C36)	24.0	U	56.9	24.0	mg/Kg	☼	12/27/21 14:17	12/28/21 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*65 - 130*	*12/27/21 14:17*	*12/28/21 19:43*	*1*
o-Terphenyl (Surr)	*117*		*65 - 130*	*12/27/21 14:17*	*12/28/21 19:43*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.77**	**J**	11.3	3.98	mg/Kg	☼	12/21/21 19:01	12/22/21 07:47	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square41-S-3-4-211214 Lab Sample ID: 860-17303-4

Date Collected: 12/14/21 10:45 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 91.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000223	U	0.00108	0.000223	mg/Kg	☼	12/16/21 21:50	12/23/21 13:40	1
Toluene	**0.00154**	**J**	0.00539	0.00108	mg/Kg	☼	12/16/21 21:50	12/23/21 13:40	1
Ethylbenzene	0.000362	U	0.00108	0.000362	mg/Kg	☼	12/16/21 21:50	12/23/21 13:40	1
m,p-Xylenes	**0.000877**	**J**	0.00215	0.000862	mg/Kg	☼	12/16/21 21:50	12/23/21 13:40	1
o-Xylene	0.00106	U	0.00108	0.00106	mg/Kg	☼	12/16/21 21:50	12/23/21 13:40	1
Xylenes, Total	0.00106	U	0.00215	0.00106	mg/Kg	☼	12/16/21 21:50	12/23/21 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*	*12/16/21 21:50*	*12/23/21 13:40*	*1*
4-Bromofluorobenzene (Surr)	*109*		*68 - 152*	*12/16/21 21:50*	*12/23/21 13:40*	*1*
Dibromofluoromethane (Surr)	*114*		*53 - 142*	*12/16/21 21:50*	*12/23/21 13:40*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*	*12/16/21 21:50*	*12/23/21 13:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.0	U	54.5	23.0	mg/Kg	☼	12/27/21 14:17	12/28/21 20:00	1
Diesel Range Organics (Over C10-C28)	23.0	U	54.5	23.0	mg/Kg	☼	12/27/21 14:17	12/28/21 20:00	1
OII Range Organics (Over C28-C36)	23.0	U	54.5	23.0	mg/Kg	☼	12/27/21 14:17	12/28/21 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*65 - 130*	*12/27/21 14:17*	*12/28/21 20:00*	*1*
o-Terphenyl (Surr)	*112*		*65 - 130*	*12/27/21 14:17*	*12/28/21 20:00*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.2**		10.7	3.80	mg/Kg	☼	12/21/21 19:01	12/22/21 08:00	1

Client Sample ID: Cell20-Square14-S-3-4-211214 Lab Sample ID: 860-17303-5

Date Collected: 12/14/21 11:05 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 94.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000240**	**J**	0.00106	0.000219	mg/Kg	☼	12/16/21 21:50	12/23/21 14:01	1
Toluene	**0.00168**	**J**	0.00530	0.00106	mg/Kg	☼	12/16/21 21:50	12/23/21 14:01	1
Ethylbenzene	0.000356	U	0.00106	0.000356	mg/Kg	☼	12/16/21 21:50	12/23/21 14:01	1
m,p-Xylenes	**0.00106**	**J**	0.00212	0.000848	mg/Kg	☼	12/16/21 21:50	12/23/21 14:01	1
o-Xylene	0.00104	U	0.00106	0.00104	mg/Kg	☼	12/16/21 21:50	12/23/21 14:01	1
Xylenes, Total	**0.00106**	**J**	0.00212	0.00104	mg/Kg	☼	12/16/21 21:50	12/23/21 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*	*12/16/21 21:50*	*12/23/21 14:01*	*1*
4-Bromofluorobenzene (Surr)	*113*		*68 - 152*	*12/16/21 21:50*	*12/23/21 14:01*	*1*
Dibromofluoromethane (Surr)	*102*		*53 - 142*	*12/16/21 21:50*	*12/23/21 14:01*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*12/16/21 21:50*	*12/23/21 14:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.3	U	52.9	22.3	mg/Kg	☼	12/27/21 14:17	12/28/21 20:19	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square14-S-3-4-211214 Lab Sample ID: 860-17303-5

Date Collected: 12/14/21 11:05 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 94.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	22.3	U	52.9	22.3	mg/Kg	☼	12/27/21 14:17	12/28/21 20:19	1
Oil Range Organics (Over C28-C36)	22.3	U	52.9	22.3	mg/Kg	☼	12/27/21 14:17	12/28/21 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*65 - 130*	*12/27/21 14:17*	*12/28/21 20:19*	*1*
o-Terphenyl (Surr)	*115*		*65 - 130*	*12/27/21 14:17*	*12/28/21 20:19*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.26**	**J**	10.6	3.76	mg/Kg	☼	12/21/21 19:01	12/22/21 08:13	1

Client Sample ID: Cell20-Square170-S-3-4-211214 Lab Sample ID: 860-17303-6

Date Collected: 12/14/21 11:20 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 94.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000217	U	0.00105	0.000217	mg/Kg	☼	12/16/21 21:50	12/23/21 14:21	1
Toluene	0.00105	U	0.00524	0.00105	mg/Kg	☼	12/16/21 21:50	12/23/21 14:21	1
Ethylbenzene	0.000352	U	0.00105	0.000352	mg/Kg	☼	12/16/21 21:50	12/23/21 14:21	1
m,p-Xylenes	0.000839	U	0.00210	0.000839	mg/Kg	☼	12/16/21 21:50	12/23/21 14:21	1
o-Xylene	0.00103	U	0.00105	0.00103	mg/Kg	☼	12/16/21 21:50	12/23/21 14:21	1
Xylenes, Total	0.00103	U	0.00210	0.00103	mg/Kg	☼	12/16/21 21:50	12/23/21 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*56 - 150*	*12/16/21 21:50*	*12/23/21 14:21*	*1*
4-Bromofluorobenzene (Surr)	*113*		*68 - 152*	*12/16/21 21:50*	*12/23/21 14:21*	*1*
Dibromofluoromethane (Surr)	*102*		*53 - 142*	*12/16/21 21:50*	*12/23/21 14:21*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*12/16/21 21:50*	*12/23/21 14:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.2	U	52.6	22.2	mg/Kg	☼	12/27/21 14:17	12/28/21 20:55	1
Diesel Range Organics (Over C10-C28)	22.2	U	52.6	22.2	mg/Kg	☼	12/27/21 14:17	12/28/21 20:55	1
Oil Range Organics (Over C28-C36)	22.2	U	52.6	22.2	mg/Kg	☼	12/27/21 14:17	12/28/21 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*65 - 130*	*12/27/21 14:17*	*12/28/21 20:55*	*1*
o-Terphenyl (Surr)	*114*		*65 - 130*	*12/27/21 14:17*	*12/28/21 20:55*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.05**	**J**	10.5	3.72	mg/Kg	☼	12/21/21 19:01	12/22/21 08:25	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square18-S-3-4-211214 Lab Sample ID: 860-17303-7

Date Collected: 12/14/21 11:50 Matrix: Solid
Date Received: 12/15/21 10:21 Percent Solids: 94.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000219	U	0.00106	0.000219	mg/Kg	☼	12/16/21 21:50	12/23/21 14:42	1
Toluene	**0.00119**	**J**	0.00529	0.00106	mg/Kg	☼	12/16/21 21:50	12/23/21 14:42	1
Ethylbenzene	0.000355	U	0.00106	0.000355	mg/Kg	☼	12/16/21 21:50	12/23/21 14:42	1
m,p-Xylenes	0.000846	U	0.00212	0.000846	mg/Kg	☼	12/16/21 21:50	12/23/21 14:42	1
o-Xylene	0.00104	U	0.00106	0.00104	mg/Kg	☼	12/16/21 21:50	12/23/21 14:42	1
Xylenes, Total	0.00104	U	0.00212	0.00104	mg/Kg	☼	12/16/21 21:50	12/23/21 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*	*12/16/21 21:50*	*12/23/21 14:42*	*1*
4-Bromofluorobenzene (Surr)	*104*		*68 - 152*	*12/16/21 21:50*	*12/23/21 14:42*	*1*
Dibromofluoromethane (Surr)	*104*		*53 - 142*	*12/16/21 21:50*	*12/23/21 14:42*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*12/16/21 21:50*	*12/23/21 14:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.2	U	52.5	22.2	mg/Kg	☼	12/27/21 14:17	12/28/21 21:13	1
Diesel Range Organics (Over C10-C28)	22.2	U	52.5	22.2	mg/Kg	☼	12/27/21 14:17	12/28/21 21:13	1
OII Range Organics (Over C28-C36)	22.2	U	52.5	22.2	mg/Kg	☼	12/27/21 14:17	12/28/21 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*65 - 130*	*12/27/21 14:17*	*12/28/21 21:13*	*1*
o-Terphenyl (Surr)	*114*		*65 - 130*	*12/27/21 14:17*	*12/28/21 21:13*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.13**	**J**	10.7	3.80	mg/Kg	☼	12/21/21 19:01	12/22/21 10:08	1

Client Sample ID: Cell21-Square37-S-3-4-211214 Lab Sample ID: 860-17303-8

Date Collected: 12/14/21 12:10 Matrix: Solid
Date Received: 12/15/21 10:21 Percent Solids: 93.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000220	U	0.00106	0.000220	mg/Kg	☼	12/16/21 21:50	12/23/21 15:02	1
Toluene	0.00106	U	0.00532	0.00106	mg/Kg	☼	12/16/21 21:50	12/23/21 15:02	1
Ethylbenzene	0.000358	U	0.00106	0.000358	mg/Kg	☼	12/16/21 21:50	12/23/21 15:02	1
m,p-Xylenes	0.000852	U	0.00213	0.000852	mg/Kg	☼	12/16/21 21:50	12/23/21 15:02	1
o-Xylene	0.00105	U	0.00106	0.00105	mg/Kg	☼	12/16/21 21:50	12/23/21 15:02	1
Xylenes, Total	0.00105	U	0.00213	0.00105	mg/Kg	☼	12/16/21 21:50	12/23/21 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*56 - 150*	*12/16/21 21:50*	*12/23/21 15:02*	*1*
4-Bromofluorobenzene (Surr)	*106*		*68 - 152*	*12/16/21 21:50*	*12/23/21 15:02*	*1*
Dibromofluoromethane (Surr)	*107*		*53 - 142*	*12/16/21 21:50*	*12/23/21 15:02*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*	*12/16/21 21:50*	*12/23/21 15:02*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.5	U	53.4	22.5	mg/Kg	☼	12/27/21 14:17	12/28/21 21:31	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square37-S-3-4-211214 Lab Sample ID: 860-17303-8

Date Collected: 12/14/21 12:10 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 93.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	**31.3**	**J**	53.4	22.5	mg/Kg	☼	12/27/21 14:17	12/28/21 21:31	1
Oil Range Organics (Over C28-C36)	22.5	U	53.4	22.5	mg/Kg	☼	12/27/21 14:17	12/28/21 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*65 - 130*	*12/27/21 14:17*	*12/28/21 21:31*	*1*
o-Terphenyl (Surr)	*117*		*65 - 130*	*12/27/21 14:17*	*12/28/21 21:31*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.40**	**J**	10.9	3.86	mg/Kg	☼	12/21/21 19:01	12/22/21 10:21	1

Client Sample ID: Cell21-Square117-S-3-4-211214 Lab Sample ID: 860-17303-9

Date Collected: 12/14/21 12:40 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 93.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000219	U	0.00106	0.000219	mg/Kg	☼	12/16/21 21:50	12/23/21 15:22	1
Toluene	**0.00111**	**J**	0.00530	0.00106	mg/Kg	☼	12/16/21 21:50	12/23/21 15:22	1
Ethylbenzene	0.000356	U	0.00106	0.000356	mg/Kg	☼	12/16/21 21:50	12/23/21 15:22	1
m,p-Xylenes	0.000847	U	0.00212	0.000847	mg/Kg	☼	12/16/21 21:50	12/23/21 15:22	1
o-Xylene	0.00104	U	0.00106	0.00104	mg/Kg	☼	12/16/21 21:50	12/23/21 15:22	1
Xylenes, Total	0.00104	U	0.00212	0.00104	mg/Kg	☼	12/16/21 21:50	12/23/21 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*	*12/16/21 21:50*	*12/23/21 15:22*	*1*
4-Bromofluorobenzene (Surr)	*109*		*68 - 152*	*12/16/21 21:50*	*12/23/21 15:22*	*1*
Dibromofluoromethane (Surr)	*110*		*53 - 142*	*12/16/21 21:50*	*12/23/21 15:22*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*	*12/16/21 21:50*	*12/23/21 15:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.4	U	53.1	22.4	mg/Kg	☼	12/27/21 14:17	12/28/21 21:49	1
Diesel Range Organics (Over C10-C28)	22.4	U	53.1	22.4	mg/Kg	☼	12/27/21 14:17	12/28/21 21:49	1
Oil Range Organics (Over C28-C36)	22.4	U	53.1	22.4	mg/Kg	☼	12/27/21 14:17	12/28/21 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*65 - 130*	*12/27/21 14:17*	*12/28/21 21:49*	*1*
o-Terphenyl (Surr)	*113*		*65 - 130*	*12/27/21 14:17*	*12/28/21 21:49*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.18**	**J**	10.9	3.85	mg/Kg	☼	12/21/21 19:01	12/22/21 10:34	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square90-S-3-4-211214 Lab Sample ID: 860-17303-10

Date Collected: 12/14/21 12:55 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 91.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000226	U	0.00109	0.000226	mg/Kg	☼	12/16/21 21:50	12/23/21 15:43	1
Toluene	0.00109	U	0.00545	0.00109	mg/Kg	☼	12/16/21 21:50	12/23/21 15:43	1
Ethylbenzene	0.000366	U	0.00109	0.000366	mg/Kg	☼	12/16/21 21:50	12/23/21 15:43	1
m,p-Xylenes	0.000873	U	0.00218	0.000873	mg/Kg	☼	12/16/21 21:50	12/23/21 15:43	1
o-Xylene	0.00107	U	0.00109	0.00107	mg/Kg	☼	12/16/21 21:50	12/23/21 15:43	1
Xylenes, Total	0.00107	U	0.00218	0.00107	mg/Kg	☼	12/16/21 21:50	12/23/21 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*	*12/16/21 21:50*	*12/23/21 15:43*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*12/16/21 21:50*	*12/23/21 15:43*	*1*
Dibromofluoromethane (Surr)	*108*		*53 - 142*	*12/16/21 21:50*	*12/23/21 15:43*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*12/16/21 21:50*	*12/23/21 15:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.2	U	54.9	23.2	mg/Kg	☼	12/27/21 14:17	12/28/21 22:06	1
Diesel Range Organics (Over C10-C28)	23.2	U	54.9	23.2	mg/Kg	☼	12/27/21 14:17	12/28/21 22:06	1
OII Range Organics (Over C28-C36)	23.2	U	54.9	23.2	mg/Kg	☼	12/27/21 14:17	12/28/21 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*65 - 130*	*12/27/21 14:17*	*12/28/21 22:06*	*1*
o-Terphenyl (Surr)	*118*		*65 - 130*	*12/27/21 14:17*	*12/28/21 22:06*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.44**	**J**	11.0	3.90	mg/Kg	☼	12/21/21 19:01	12/22/21 10:47	1

Client Sample ID: Cell25-Square190-S-3-4-211214 Lab Sample ID: 860-17303-11

Date Collected: 12/14/21 13:20 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 92.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000225	U	0.00109	0.000225	mg/Kg	☼	12/16/21 21:50	12/23/21 16:03	1
Toluene	0.00109	U	0.00543	0.00109	mg/Kg	☼	12/16/21 21:50	12/23/21 16:03	1
Ethylbenzene	0.000364	U	0.00109	0.000364	mg/Kg	☼	12/16/21 21:50	12/23/21 16:03	1
m,p-Xylenes	0.000868	U	0.00217	0.000868	mg/Kg	☼	12/16/21 21:50	12/23/21 16:03	1
o-Xylene	0.00107	U	0.00109	0.00107	mg/Kg	☼	12/16/21 21:50	12/23/21 16:03	1
Xylenes, Total	0.00107	U	0.00217	0.00107	mg/Kg	☼	12/16/21 21:50	12/23/21 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*56 - 150*	*12/16/21 21:50*	*12/23/21 16:03*	*1*
4-Bromofluorobenzene (Surr)	*104*		*68 - 152*	*12/16/21 21:50*	*12/23/21 16:03*	*1*
Dibromofluoromethane (Surr)	*105*		*53 - 142*	*12/16/21 21:50*	*12/23/21 16:03*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*12/16/21 21:50*	*12/23/21 16:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.0	U	54.4	23.0	mg/Kg	☼	12/27/21 14:17	12/28/21 22:24	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square190-S-3-4-211214 Lab Sample ID: 860-17303-11

Date Collected: 12/14/21 13:20 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 92.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	23.0	U	54.4	23.0	mg/Kg	☼	12/27/21 14:17	12/28/21 22:24	1
OII Range Organics (Over C28-C36)	23.0	U	54.4	23.0	mg/Kg	☼	12/27/21 14:17	12/28/21 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*65 - 130*	*12/27/21 14:17*	*12/28/21 22:24*	*1*
o-Terphenyl (Surr)	*116*		*65 - 130*	*12/27/21 14:17*	*12/28/21 22:24*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.24**	**J**	10.8	3.83	mg/Kg	☼	12/21/21 19:01	12/22/21 11:00	1

Client Sample ID: Cell25-Square176-S-3-4-211214 Lab Sample ID: 860-17303-12

Date Collected: 12/14/21 13:45 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 92.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000222	U	0.00107	0.000222	mg/Kg	☼	12/16/21 21:50	12/23/21 16:24	1
Toluene	0.00107	U	0.00536	0.00107	mg/Kg	☼	12/16/21 21:50	12/23/21 16:24	1
Ethylbenzene	0.000360	U	0.00107	0.000360	mg/Kg	☼	12/16/21 21:50	12/23/21 16:24	1
m,p-Xylenes	0.000858	U	0.00215	0.000858	mg/Kg	☼	12/16/21 21:50	12/23/21 16:24	1
o-Xylene	0.00106	U	0.00107	0.00106	mg/Kg	☼	12/16/21 21:50	12/23/21 16:24	1
Xylenes, Total	0.00106	U	0.00215	0.00106	mg/Kg	☼	12/16/21 21:50	12/23/21 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*	*12/16/21 21:50*	*12/23/21 16:24*	*1*
4-Bromofluorobenzene (Surr)	*104*		*68 - 152*	*12/16/21 21:50*	*12/23/21 16:24*	*1*
Dibromofluoromethane (Surr)	*108*		*53 - 142*	*12/16/21 21:50*	*12/23/21 16:24*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*12/16/21 21:50*	*12/23/21 16:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.8	U	54.0	22.8	mg/Kg	☼	12/27/21 14:17	12/28/21 22:42	1
Diesel Range Organics (Over C10-C28)	22.8	U	54.0	22.8	mg/Kg	☼	12/27/21 14:17	12/28/21 22:42	1
OII Range Organics (Over C28-C36)	22.8	U	54.0	22.8	mg/Kg	☼	12/27/21 14:17	12/28/21 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*65 - 130*	*12/27/21 14:17*	*12/28/21 22:42*	*1*
o-Terphenyl (Surr)	*111*		*65 - 130*	*12/27/21 14:17*	*12/28/21 22:42*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.31**	**J**	10.6	3.76	mg/Kg	☼	12/21/21 19:01	12/22/21 11:13	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square33-S-3-4-211214 Lab Sample ID: 860-17303-13

Date Collected: 12/14/21 14:15 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 92.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000223	U	0.00108	0.000223	mg/Kg	☼	12/16/21 21:50	12/23/21 16:44	1
Toluene	0.00108	U	0.00538	0.00108	mg/Kg	☼	12/16/21 21:50	12/23/21 16:44	1
Ethylbenzene	0.000361	U	0.00108	0.000361	mg/Kg	☼	12/16/21 21:50	12/23/21 16:44	1
m,p-Xylenes	0.000861	U	0.00215	0.000861	mg/Kg	☼	12/16/21 21:50	12/23/21 16:44	1
o-Xylene	0.00106	U	0.00108	0.00106	mg/Kg	☼	12/16/21 21:50	12/23/21 16:44	1
Xylenes, Total	0.00106	U	0.00215	0.00106	mg/Kg	☼	12/16/21 21:50	12/23/21 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*	*12/16/21 21:50*	*12/23/21 16:44*	*1*
4-Bromofluorobenzene (Surr)	*104*		*68 - 152*	*12/16/21 21:50*	*12/23/21 16:44*	*1*
Dibromofluoromethane (Surr)	*104*		*53 - 142*	*12/16/21 21:50*	*12/23/21 16:44*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*12/16/21 21:50*	*12/23/21 16:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.9	U	54.2	22.9	mg/Kg	☼	12/27/21 14:17	12/28/21 23:00	1
Diesel Range Organics (Over C10-C28)	22.9	U	54.2	22.9	mg/Kg	☼	12/27/21 14:17	12/28/21 23:00	1
OII Range Organics (Over C28-C36)	22.9	U	54.2	22.9	mg/Kg	☼	12/27/21 14:17	12/28/21 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*65 - 130*	*12/27/21 14:17*	*12/28/21 23:00*	*1*
o-Terphenyl (Surr)	*116*		*65 - 130*	*12/27/21 14:17*	*12/28/21 23:00*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.7**		11.0	3.90	mg/Kg	☼	12/21/21 19:01	12/22/21 11:51	1

Client Sample ID: Cell25-Square70-S-3-4-211214 Lab Sample ID: 860-17303-14

Date Collected: 12/14/21 14:30 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 89.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000229	U	0.00110	0.000229	mg/Kg	☼	12/16/21 21:50	12/23/21 17:05	1
Toluene	0.00110	U	0.00552	0.00110	mg/Kg	☼	12/16/21 21:50	12/23/21 17:05	1
Ethylbenzene	0.000371	U	0.00110	0.000371	mg/Kg	☼	12/16/21 21:50	12/23/21 17:05	1
m,p-Xylenes	0.000883	U	0.00221	0.000883	mg/Kg	☼	12/16/21 21:50	12/23/21 17:05	1
o-Xylene	0.00109	U	0.00110	0.00109	mg/Kg	☼	12/16/21 21:50	12/23/21 17:05	1
Xylenes, Total	0.00109	U	0.00221	0.00109	mg/Kg	☼	12/16/21 21:50	12/23/21 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*56 - 150*	*12/16/21 21:50*	*12/23/21 17:05*	*1*
4-Bromofluorobenzene (Surr)	*106*		*68 - 152*	*12/16/21 21:50*	*12/23/21 17:05*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*	*12/16/21 21:50*	*12/23/21 17:05*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*12/16/21 21:50*	*12/23/21 17:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.3	U	55.3	23.3	mg/Kg	☼	12/27/21 14:17	12/28/21 23:18	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square70-S-3-4-211214
Lab Sample ID: 860-17303-14
Date Collected: 12/14/21 14:30
Matrix: Solid
Date Received: 12/15/21 10:21
Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	23.3	U	55.3	23.3	mg/Kg	☼	12/27/21 14:17	12/28/21 23:18	1
OII Range Organics (Over C28-C36)	23.3	U	55.3	23.3	mg/Kg	☼	12/27/21 14:17	12/28/21 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*65 - 130*	*12/27/21 14:17*	*12/28/21 23:18*	*1*
o-Terphenyl (Surr)	*128*		*65 - 130*	*12/27/21 14:17*	*12/28/21 23:18*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.15**	**J**	11.4	4.03	mg/Kg	☼	12/21/21 19:01	12/22/21 12:04	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
860-17303-1	Cell19-Square128-S-3-4-211214	112	115	99	103
860-17303-2	Cell19-Square27-S-3-4-211214	109	109	95	104
860-17303-3	Cell20-Square18-S-3-4-211214	95	109	106	98
860-17303-4	Cell20-Square41-S-3-4-211214	104	109	114	91
860-17303-5	Cell20-Square14-S-3-4-211214	95	113	102	101
860-17303-6	Cell20-Square170-S-3-4-211214	87	113	102	100
860-17303-7	Cell21-Square18-S-3-4-211214	99	104	104	95
860-17303-8	Cell21-Square37-S-3-4-211214	106	106	107	92
860-17303-9	Cell21-Square117-S-3-4-211214	102	109	110	93
860-17303-10	Cell21-Square90-S-3-4-211214	99	102	108	94
860-17303-11	Cell25-Square190-S-3-4-211214	98	104	105	98
860-17303-12	Cell25-Square176-S-3-4-211214	101	104	108	95
860-17303-13	Cell25-Square33-S-3-4-211214	99	104	104	96
860-17303-14	Cell25-Square70-S-3-4-211214	88	106	99	102
LCS 860-35424/3	Lab Control Sample	87	103	102	94
LCS 860-35425/3	Lab Control Sample	112	110	98	101
LCSD 860-35424/4	Lab Control Sample Dup	99	102	107	92
LCSD 860-35425/4	Lab Control Sample Dup	112	114	99	100
MB 860-35424/8	Method Blank	94	103	98	96
MB 860-35425/8	Method Blank	106	114	92	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(65-130)	(65-130)
860-17303-1	Cell19-Square128-S-3-4-211214	104	112
860-17303-1 MS	Cell19-Square128-S-3-4-211214	118	104
860-17303-1 MSD	Cell19-Square128-S-3-4-211214	119	104
860-17303-2	Cell19-Square27-S-3-4-211214	103	112
860-17303-3	Cell20-Square18-S-3-4-211214	107	117
860-17303-4	Cell20-Square41-S-3-4-211214	103	112
860-17303-5	Cell20-Square14-S-3-4-211214	104	115
860-17303-6	Cell20-Square170-S-3-4-211214	106	114
860-17303-7	Cell21-Square18-S-3-4-211214	105	114
860-17303-8	Cell21-Square37-S-3-4-211214	107	117
860-17303-9	Cell21-Square117-S-3-4-211214	103	113

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(65-130)	(65-130)								
860-17303-10	Cell21-Square90-S-3-4-211214	109	118								
860-17303-11	Cell25-Square190-S-3-4-211214	107	116								
860-17303-12	Cell25-Square176-S-3-4-211214	104	111								
860-17303-13	Cell25-Square33-S-3-4-211214	106	116								
860-17303-14	Cell25-Square70-S-3-4-211214	118	128								
LCS 860-35668/2-A	Lab Control Sample	124	110								
LCSD 860-35668/3-A	Lab Control Sample Dup	121	108								
MB 860-35668/1-A	Method Blank	104	113								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-35424/8 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35424

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			12/23/21 11:58	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			12/23/21 11:58	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			12/23/21 11:58	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			12/23/21 11:58	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			12/23/21 11:58	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			12/23/21 11:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*56 - 150*		*12/23/21 11:58*	*1*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*		*12/23/21 11:58*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*		*12/23/21 11:58*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*12/23/21 11:58*	*1*

Lab Sample ID: LCS 860-35424/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35424

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04809		mg/Kg		96	66 - 142
Toluene	0.0500	0.04480		mg/Kg		90	74 - 130
Ethylbenzene	0.0500	0.04787		mg/Kg		96	80 - 130
m,p-Xylenes	0.0500	0.04838		mg/Kg		97	78 - 130
o-Xylene	0.0500	0.04812		mg/Kg		96	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*56 - 150*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*
Dibromofluoromethane (Surr)	*102*		*53 - 142*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 860-35424/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35424

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.05349		mg/Kg		107	66 - 142	11	25
Toluene	0.0500	0.04384		mg/Kg		88	74 - 130	2	25
Ethylbenzene	0.0500	0.04882		mg/Kg		98	80 - 130	2	25
m,p-Xylenes	0.0500	0.04877		mg/Kg		98	78 - 130	1	25
o-Xylene	0.0500	0.04941		mg/Kg		99	79 - 130	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*
Dibromofluoromethane (Surr)	*107*		*53 - 142*
Toluene-d8 (Surr)	*92*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-35425/8 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35425

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			12/23/21 12:46	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			12/23/21 12:46	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			12/23/21 12:46	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			12/23/21 12:46	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			12/23/21 12:46	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			12/23/21 12:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*56 - 150*		*12/23/21 12:46*	*1*
4-Bromofluorobenzene (Surr)	*114*		*68 - 152*		*12/23/21 12:46*	*1*
Dibromofluoromethane (Surr)	*92*		*53 - 142*		*12/23/21 12:46*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*12/23/21 12:46*	*1*

Lab Sample ID: LCS 860-35425/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35425

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.04927		mg/Kg		99	66 - 142		
Toluene			0.0500	0.05100		mg/Kg		102	74 - 130		
Ethylbenzene			0.0500	0.05474		mg/Kg		109	80 - 130		
m,p-Xylenes			0.0500	0.05188		mg/Kg		104	78 - 130		
o-Xylene			0.0500	0.05489		mg/Kg		110	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*56 - 150*
4-Bromofluorobenzene (Surr)	*110*		*68 - 152*
Dibromofluoromethane (Surr)	*98*		*53 - 142*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 860-35425/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35425

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0500	0.05105		mg/Kg		102	66 - 142	4	25
Toluene			0.0500	0.05156		mg/Kg		103	74 - 130	1	25
Ethylbenzene			0.0500	0.05594		mg/Kg		112	80 - 130	2	25
m,p-Xylenes			0.0500	0.05290		mg/Kg		106	78 - 130	2	25
o-Xylene			0.0500	0.05609		mg/Kg		112	79 - 130	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*56 - 150*
4-Bromofluorobenzene (Surr)	*114*		*68 - 152*
Dibromofluoromethane (Surr)	*99*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-35668/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35803 **Prep Batch: 35668**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:17	12/28/21 17:38	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:17	12/28/21 17:38	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:17	12/28/21 17:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*65 - 130*	*12/27/21 14:17*	*12/28/21 17:38*	*1*
o-Terphenyl (Surr)	*113*		*65 - 130*	*12/27/21 14:17*	*12/28/21 17:38*	*1*

Lab Sample ID: LCS 860-35668/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35803 **Prep Batch: 35668**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	994	1098		mg/Kg		110	70 - 135
Diesel Range Organics (Over C10-C28)	994	1138		mg/Kg		114	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*124*		*65 - 130*
o-Terphenyl (Surr)	*110*		*65 - 130*

Lab Sample ID: LCSD 860-35668/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35803 **Prep Batch: 35668**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	994	1125		mg/Kg		113	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	994	1186		mg/Kg		119	70 - 135	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*121*		*65 - 130*
o-Terphenyl (Surr)	*108*		*65 - 130*

Lab Sample ID: 860-17303-1 MS **Client Sample ID: Cell19-Square128-S-3-4-211214**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35803 **Prep Batch: 35668**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	21.6	U	1030	1167		mg/Kg	☼	114	70 - 135
Diesel Range Organics (Over C10-C28)	21.6	U	1030	1190		mg/Kg	☼	116	70 - 135

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: 860-17303-1 MS **Client Sample ID: Cell19-Square128-S-3-4-211214**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35803 **Prep Batch: 35668**

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	118		65 - 130
o-Terphenyl (Surr)	104		65 - 130

Lab Sample ID: 860-17303-1 MSD **Client Sample ID: Cell19-Square128-S-3-4-211214**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35803 **Prep Batch: 35668**

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	21.6	U	1020	1159		mg/Kg	☼	113	70 - 135	1	35
Diesel Range Organics (Over C10-C28)	21.6	U	1020	1190		mg/Kg	☼	116	70 - 135	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	119		65 - 130
o-Terphenyl (Surr)	104		65 - 130

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-35181/28-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35123 **Prep Batch: 35181**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		12/21/21 19:01	12/22/21 01:34	1

Lab Sample ID: MB 860-35181/57-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35123 **Prep Batch: 35181**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		12/21/21 19:01	12/22/21 09:17	1

Lab Sample ID: LCS 860-35181/29-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35123 **Prep Batch: 35181**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	101.1		mg/Kg		101	80 - 120

Lab Sample ID: LCS 860-35181/58-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35123 **Prep Batch: 35181**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	101.6		mg/Kg		102	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-35181/30-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35123 — **Prep Batch: 35181**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	100.2		mg/Kg		100	80 - 120	1	20

Lab Sample ID: LCSD 860-35181/59-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35123 — **Prep Batch: 35181**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	100.5		mg/Kg		100	80 - 120	1	20

Lab Sample ID: 860-17303-6 MS — **Client Sample ID: Cell20-Square170-S-3-4-211214**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35123 — **Prep Batch: 35181**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	6.05	J	107	112.9		mg/Kg	☼	100	80 - 120		

Lab Sample ID: 860-17303-6 MSD — **Client Sample ID: Cell20-Square170-S-3-4-211214**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35123 — **Prep Batch: 35181**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6.05	J	107	112.7		mg/Kg	☼	100	80 - 120	0	20

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 34665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17303-1	Cell19-Square128-S-3-4-211214	Total/NA	Solid	5030C	
860-17303-2	Cell19-Square27-S-3-4-211214	Total/NA	Solid	5030C	
860-17303-3	Cell20-Square18-S-3-4-211214	Total/NA	Solid	5030C	
860-17303-4	Cell20-Square41-S-3-4-211214	Total/NA	Solid	5030C	
860-17303-5	Cell20-Square14-S-3-4-211214	Total/NA	Solid	5030C	
860-17303-6	Cell20-Square170-S-3-4-211214	Total/NA	Solid	5030C	
860-17303-7	Cell21-Square18-S-3-4-211214	Total/NA	Solid	5030C	
860-17303-8	Cell21-Square37-S-3-4-211214	Total/NA	Solid	5030C	
860-17303-9	Cell21-Square117-S-3-4-211214	Total/NA	Solid	5030C	
860-17303-10	Cell21-Square90-S-3-4-211214	Total/NA	Solid	5030C	
860-17303-11	Cell25-Square190-S-3-4-211214	Total/NA	Solid	5030C	
860-17303-12	Cell25-Square176-S-3-4-211214	Total/NA	Solid	5030C	
860-17303-13	Cell25-Square33-S-3-4-211214	Total/NA	Solid	5030C	
860-17303-14	Cell25-Square70-S-3-4-211214	Total/NA	Solid	5030C	

Analysis Batch: 35424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17303-3	Cell20-Square18-S-3-4-211214	Total/NA	Solid	8260C	34665
860-17303-4	Cell20-Square41-S-3-4-211214	Total/NA	Solid	8260C	34665
860-17303-5	Cell20-Square14-S-3-4-211214	Total/NA	Solid	8260C	34665
860-17303-6	Cell20-Square170-S-3-4-211214	Total/NA	Solid	8260C	34665
860-17303-7	Cell21-Square18-S-3-4-211214	Total/NA	Solid	8260C	34665
860-17303-8	Cell21-Square37-S-3-4-211214	Total/NA	Solid	8260C	34665
860-17303-9	Cell21-Square117-S-3-4-211214	Total/NA	Solid	8260C	34665
860-17303-10	Cell21-Square90-S-3-4-211214	Total/NA	Solid	8260C	34665
860-17303-11	Cell25-Square190-S-3-4-211214	Total/NA	Solid	8260C	34665
860-17303-12	Cell25-Square176-S-3-4-211214	Total/NA	Solid	8260C	34665
860-17303-13	Cell25-Square33-S-3-4-211214	Total/NA	Solid	8260C	34665
860-17303-14	Cell25-Square70-S-3-4-211214	Total/NA	Solid	8260C	34665
MB 860-35424/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-35424/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-35424/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 35425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17303-1	Cell19-Square128-S-3-4-211214	Total/NA	Solid	8260C	34665
860-17303-2	Cell19-Square27-S-3-4-211214	Total/NA	Solid	8260C	34665
MB 860-35425/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-35425/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-35425/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC Semi VOA

Prep Batch: 35668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17303-1	Cell19-Square128-S-3-4-211214	Total/NA	Solid	8015NM Prep	
860-17303-2	Cell19-Square27-S-3-4-211214	Total/NA	Solid	8015NM Prep	
860-17303-3	Cell20-Square18-S-3-4-211214	Total/NA	Solid	8015NM Prep	
860-17303-4	Cell20-Square41-S-3-4-211214	Total/NA	Solid	8015NM Prep	
860-17303-5	Cell20-Square14-S-3-4-211214	Total/NA	Solid	8015NM Prep	
860-17303-6	Cell20-Square170-S-3-4-211214	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Prep Batch: 35668 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17303-7	Cell21-Square18-S-3-4-211214	Total/NA	Solid	8015NM Prep	
860-17303-8	Cell21-Square37-S-3-4-211214	Total/NA	Solid	8015NM Prep	
860-17303-9	Cell21-Square117-S-3-4-211214	Total/NA	Solid	8015NM Prep	
860-17303-10	Cell21-Square90-S-3-4-211214	Total/NA	Solid	8015NM Prep	
860-17303-11	Cell25-Square190-S-3-4-211214	Total/NA	Solid	8015NM Prep	
860-17303-12	Cell25-Square176-S-3-4-211214	Total/NA	Solid	8015NM Prep	
860-17303-13	Cell25-Square33-S-3-4-211214	Total/NA	Solid	8015NM Prep	
860-17303-14	Cell25-Square70-S-3-4-211214	Total/NA	Solid	8015NM Prep	
MB 860-35668/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-35668/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-35668/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
860-17303-1 MS	Cell19-Square128-S-3-4-211214	Total/NA	Solid	8015NM Prep	
860-17303-1 MSD	Cell19-Square128-S-3-4-211214	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17303-1	Cell19-Square128-S-3-4-211214	Total/NA	Solid	8015B NM	35668
860-17303-2	Cell19-Square27-S-3-4-211214	Total/NA	Solid	8015B NM	35668
860-17303-3	Cell20-Square18-S-3-4-211214	Total/NA	Solid	8015B NM	35668
860-17303-4	Cell20-Square41-S-3-4-211214	Total/NA	Solid	8015B NM	35668
860-17303-5	Cell20-Square14-S-3-4-211214	Total/NA	Solid	8015B NM	35668
860-17303-6	Cell20-Square170-S-3-4-211214	Total/NA	Solid	8015B NM	35668
860-17303-7	Cell21-Square18-S-3-4-211214	Total/NA	Solid	8015B NM	35668
860-17303-8	Cell21-Square37-S-3-4-211214	Total/NA	Solid	8015B NM	35668
860-17303-9	Cell21-Square117-S-3-4-211214	Total/NA	Solid	8015B NM	35668
860-17303-10	Cell21-Square90-S-3-4-211214	Total/NA	Solid	8015B NM	35668
860-17303-11	Cell25-Square190-S-3-4-211214	Total/NA	Solid	8015B NM	35668
860-17303-12	Cell25-Square176-S-3-4-211214	Total/NA	Solid	8015B NM	35668
860-17303-13	Cell25-Square33-S-3-4-211214	Total/NA	Solid	8015B NM	35668
860-17303-14	Cell25-Square70-S-3-4-211214	Total/NA	Solid	8015B NM	35668
MB 860-35668/1-A	Method Blank	Total/NA	Solid	8015B NM	35668
LCS 860-35668/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35668
LCSD 860-35668/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35668
860-17303-1 MS	Cell19-Square128-S-3-4-211214	Total/NA	Solid	8015B NM	35668
860-17303-1 MSD	Cell19-Square128-S-3-4-211214	Total/NA	Solid	8015B NM	35668

HPLC/IC

Analysis Batch: 35123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17303-1	Cell19-Square128-S-3-4-211214	Total/NA	Solid	9056A	35181
860-17303-2	Cell19-Square27-S-3-4-211214	Total/NA	Solid	9056A	35181
860-17303-3	Cell20-Square18-S-3-4-211214	Total/NA	Solid	9056A	35181
860-17303-4	Cell20-Square41-S-3-4-211214	Total/NA	Solid	9056A	35181
860-17303-5	Cell20-Square14-S-3-4-211214	Total/NA	Solid	9056A	35181
860-17303-6	Cell20-Square170-S-3-4-211214	Total/NA	Solid	9056A	35181
860-17303-7	Cell21-Square18-S-3-4-211214	Total/NA	Solid	9056A	35181
860-17303-8	Cell21-Square37-S-3-4-211214	Total/NA	Solid	9056A	35181
860-17303-9	Cell21-Square117-S-3-4-211214	Total/NA	Solid	9056A	35181
860-17303-10	Cell21-Square90-S-3-4-211214	Total/NA	Solid	9056A	35181
860-17303-11	Cell25-Square190-S-3-4-211214	Total/NA	Solid	9056A	35181

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Analysis Batch: 35123 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17303-12	Cell25-Square176-S-3-4-211214	Total/NA	Solid	9056A	35181
860-17303-13	Cell25-Square33-S-3-4-211214	Total/NA	Solid	9056A	35181
860-17303-14	Cell25-Square70-S-3-4-211214	Total/NA	Solid	9056A	35181
MB 860-35181/28-A	Method Blank	Total/NA	Solid	9056A	35181
MB 860-35181/57-A	Method Blank	Total/NA	Solid	9056A	35181
LCS 860-35181/29-A	Lab Control Sample	Total/NA	Solid	9056A	35181
LCS 860-35181/58-A	Lab Control Sample	Total/NA	Solid	9056A	35181
LCSD 860-35181/30-A	Lab Control Sample Dup	Total/NA	Solid	9056A	35181
LCSD 860-35181/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	35181
860-17303-6 MS	Cell20-Square170-S-3-4-211214	Total/NA	Solid	9056A	35181
860-17303-6 MSD	Cell20-Square170-S-3-4-211214	Total/NA	Solid	9056A	35181

Prep Batch: 35181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17303-1	Cell19-Square128-S-3-4-211214	Total/NA	Solid	300_Prep	
860-17303-2	Cell19-Square27-S-3-4-211214	Total/NA	Solid	300_Prep	
860-17303-3	Cell20-Square18-S-3-4-211214	Total/NA	Solid	300_Prep	
860-17303-4	Cell20-Square41-S-3-4-211214	Total/NA	Solid	300_Prep	
860-17303-5	Cell20-Square14-S-3-4-211214	Total/NA	Solid	300_Prep	
860-17303-6	Cell20-Square170-S-3-4-211214	Total/NA	Solid	300_Prep	
860-17303-7	Cell21-Square18-S-3-4-211214	Total/NA	Solid	300_Prep	
860-17303-8	Cell21-Square37-S-3-4-211214	Total/NA	Solid	300_Prep	
860-17303-9	Cell21-Square117-S-3-4-211214	Total/NA	Solid	300_Prep	
860-17303-10	Cell21-Square90-S-3-4-211214	Total/NA	Solid	300_Prep	
860-17303-11	Cell25-Square190-S-3-4-211214	Total/NA	Solid	300_Prep	
860-17303-12	Cell25-Square176-S-3-4-211214	Total/NA	Solid	300_Prep	
860-17303-13	Cell25-Square33-S-3-4-211214	Total/NA	Solid	300_Prep	
860-17303-14	Cell25-Square70-S-3-4-211214	Total/NA	Solid	300_Prep	
MB 860-35181/28-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-35181/57-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-35181/29-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCS 860-35181/58-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-35181/30-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
LCSD 860-35181/59-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-17303-6 MS	Cell20-Square170-S-3-4-211214	Total/NA	Solid	300_Prep	
860-17303-6 MSD	Cell20-Square170-S-3-4-211214	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 34512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17303-1	Cell19-Square128-S-3-4-211214	Total/NA	Solid	Moisture - 2540	
860-17303-2	Cell19-Square27-S-3-4-211214	Total/NA	Solid	Moisture - 2540	
860-17303-3	Cell20-Square18-S-3-4-211214	Total/NA	Solid	Moisture - 2540	
860-17303-4	Cell20-Square41-S-3-4-211214	Total/NA	Solid	Moisture - 2540	
860-17303-5	Cell20-Square14-S-3-4-211214	Total/NA	Solid	Moisture - 2540	
860-17303-6	Cell20-Square170-S-3-4-211214	Total/NA	Solid	Moisture - 2540	
860-17303-7	Cell21-Square18-S-3-4-211214	Total/NA	Solid	Moisture - 2540	
860-17303-8	Cell21-Square37-S-3-4-211214	Total/NA	Solid	Moisture - 2540	
860-17303-9	Cell21-Square117-S-3-4-211214	Total/NA	Solid	Moisture - 2540	
860-17303-10	Cell21-Square90-S-3-4-211214	Total/NA	Solid	Moisture - 2540	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry (Continued)

Analysis Batch: 34512 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17303-11	Cell25-Square190-S-3-4-211214	Total/NA	Solid	Moisture - 2540	
860-17303-12	Cell25-Square176-S-3-4-211214	Total/NA	Solid	Moisture - 2540	
860-17303-13	Cell25-Square33-S-3-4-211214	Total/NA	Solid	Moisture - 2540	
860-17303-14	Cell25-Square70-S-3-4-211214	Total/NA	Solid	Moisture - 2540	
MB 860-34512/1	Method Blank	Total/NA	Solid	Moisture - 2540	
860-17303-1 DU	Cell19-Square128-S-3-4-211214	Total/NA	Solid	Moisture - 2540	
860-17303-11 DU	Cell25-Square190-S-3-4-211214	Total/NA	Solid	Moisture - 2540	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square128-S-3-4-211214 Lab Sample ID: 860-17303-1
Date Collected: 12/14/21 09:10 **Matrix: Solid**
Date Received: 12/15/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34512	12/16/21 09:06	BM	XEN STF

Client Sample ID: Cell19-Square128-S-3-4-211214 Lab Sample ID: 860-17303-1
Date Collected: 12/14/21 09:10 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 96.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35425	12/23/21 17:18	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 18:32	T1S	XEN STF
Total/NA	Prep	300_Prep			5.06 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 07:21	ANP	XEN STF

Client Sample ID: Cell19-Square27-S-3-4-211214 Lab Sample ID: 860-17303-2
Date Collected: 12/14/21 10:00 **Matrix: Solid**
Date Received: 12/15/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34512	12/16/21 09:06	BM	XEN STF

Client Sample ID: Cell19-Square27-S-3-4-211214 Lab Sample ID: 860-17303-2
Date Collected: 12/14/21 10:00 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 92.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35425	12/23/21 17:39	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 19:25	T1S	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 07:34	ANP	XEN STF

Client Sample ID: Cell20-Square18-S-3-4-211214 Lab Sample ID: 860-17303-3
Date Collected: 12/14/21 10:30 **Matrix: Solid**
Date Received: 12/15/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34512	12/16/21 09:06	BM	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square18-S-3-4-211214 Lab Sample ID: 860-17303-3

Date Collected: 12/14/21 10:30 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 87.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35424	12/23/21 13:20	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 19:43	T1S	XEN STF
Total/NA	Prep	300_Prep			5.09 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 07:47	ANP	XEN STF

Client Sample ID: Cell20-Square41-S-3-4-211214 Lab Sample ID: 860-17303-4

Date Collected: 12/14/21 10:45 **Matrix: Solid**
Date Received: 12/15/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34512	12/16/21 09:06	BM	XEN STF

Client Sample ID: Cell20-Square41-S-3-4-211214 Lab Sample ID: 860-17303-4

Date Collected: 12/14/21 10:45 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 91.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35424	12/23/21 13:40	CSP	XEN STF
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 20:00	T1S	XEN STF
Total/NA	Prep	300_Prep			5.07 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 08:00	ANP	XEN STF

Client Sample ID: Cell20-Square14-S-3-4-211214 Lab Sample ID: 860-17303-5

Date Collected: 12/14/21 11:05 **Matrix: Solid**
Date Received: 12/15/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34512	12/16/21 09:06	BM	XEN STF

Client Sample ID: Cell20-Square14-S-3-4-211214 Lab Sample ID: 860-17303-5

Date Collected: 12/14/21 11:05 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 94.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35424	12/23/21 14:01	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 20:19	T1S	XEN STF
Total/NA	Prep	300_Prep			5.01 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 08:13	ANP	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square170-S-3-4-211214 Lab Sample ID: 860-17303-6

Date Collected: 12/14/21 11:20 **Matrix: Solid**
Date Received: 12/15/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34512	12/16/21 09:06	BM	XEN STF

Client Sample ID: Cell20-Square170-S-3-4-211214 Lab Sample ID: 860-17303-6

Date Collected: 12/14/21 11:20 **Matrix: Solid**
Date Received: 12/15/21 10:21 **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			5.04 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35424	12/23/21 14:21	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 20:55	T1S	XEN STF
Total/NA	Prep	300_Prep			5.03 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 08:25	ANP	XEN STF

Client Sample ID: Cell21-Square18-S-3-4-211214 Lab Sample ID: 860-17303-7

Date Collected: 12/14/21 11:50 **Matrix: Solid**
Date Received: 12/15/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34512	12/16/21 09:06	BM	XEN STF

Client Sample ID: Cell21-Square18-S-3-4-211214 Lab Sample ID: 860-17303-7

Date Collected: 12/14/21 11:50 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 94.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35424	12/23/21 14:42	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.13 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 21:13	T1S	XEN STF
Total/NA	Prep	300_Prep			4.95 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 10:08	ANP	XEN STF

Client Sample ID: Cell21-Square37-S-3-4-211214 Lab Sample ID: 860-17303-8

Date Collected: 12/14/21 12:10 **Matrix: Solid**
Date Received: 12/15/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34512	12/16/21 09:06	BM	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square37-S-3-4-211214 Lab Sample ID: 860-17303-8

Date Collected: 12/14/21 12:10 **Matrix: Solid**
Date Received: 12/15/21 10:21 **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	5030C			5.03 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35424	12/23/21 15:02	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 21:31	T1S	XEN STF
Total/NA	Prep	300_Prep			4.91 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 10:21	ANP	XEN STF

Client Sample ID: Cell21-Square117-S-3-4-211214 Lab Sample ID: 860-17303-9

Date Collected: 12/14/21 12:40 **Matrix: Solid**
Date Received: 12/15/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34512	12/16/21 09:06	BM	XEN STF

Client Sample ID: Cell21-Square117-S-3-4-211214 Lab Sample ID: 860-17303-9

Date Collected: 12/14/21 12:40 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 93.5**

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	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35424	12/23/21 15:22	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 21:49	T1S	XEN STF
Total/NA	Prep	300_Prep			4.92 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 10:34	ANP	XEN STF

Client Sample ID: Cell21-Square90-S-3-4-211214 Lab Sample ID: 860-17303-10

Date Collected: 12/14/21 12:55 **Matrix: Solid**
Date Received: 12/15/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34512	12/16/21 09:06	BM	XEN STF

Client Sample ID: Cell21-Square90-S-3-4-211214 Lab Sample ID: 860-17303-10

Date Collected: 12/14/21 12:55 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 91.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35424	12/23/21 15:43	CSP	XEN STF
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 22:06	T1S	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 10:47	ANP	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square190-S-3-4-211214 **Lab Sample ID: 860-17303-11**
Date Collected: 12/14/21 13:20 **Matrix: Solid**
Date Received: 12/15/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34512	12/16/21 09:06	BM	XEN STF

Client Sample ID: Cell25-Square190-S-3-4-211214 **Lab Sample ID: 860-17303-11**
Date Collected: 12/14/21 13:20 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 92.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35424	12/23/21 16:03	CSP	XEN STF
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 22:24	T1S	XEN STF
Total/NA	Prep	300_Prep			5.02 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 11:00	ANP	XEN STF

Client Sample ID: Cell25-Square176-S-3-4-211214 **Lab Sample ID: 860-17303-12**
Date Collected: 12/14/21 13:45 **Matrix: Solid**
Date Received: 12/15/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34512	12/16/21 09:06	BM	XEN STF

Client Sample ID: Cell25-Square176-S-3-4-211214 **Lab Sample ID: 860-17303-12**
Date Collected: 12/14/21 13:45 **Matrix: Solid**
Date Received: 12/15/21 10:21 **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	5030C			5.04 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35424	12/23/21 16:24	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 22:42	T1S	XEN STF
Total/NA	Prep	300_Prep			5.09 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 11:13	ANP	XEN STF

Client Sample ID: Cell25-Square33-S-3-4-211214 **Lab Sample ID: 860-17303-13**
Date Collected: 12/14/21 14:15 **Matrix: Solid**
Date Received: 12/15/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34512	12/16/21 09:06	BM	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square33-S-3-4-211214 Lab Sample ID: 860-17303-13

Date Collected: 12/14/21 14:15 **Matrix: Solid**
Date Received: 12/15/21 10:21 **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	5030C			5.02 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35424	12/23/21 16:44	CSP	XEN STF
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 23:00	T1S	XEN STF
Total/NA	Prep	300_Prep			4.91 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 11:51	ANP	XEN STF

Client Sample ID: Cell25-Square70-S-3-4-211214 Lab Sample ID: 860-17303-14

Date Collected: 12/14/21 14:30 **Matrix: Solid**
Date Received: 12/15/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34512	12/16/21 09:15	BM	XEN STF

Client Sample ID: Cell25-Square70-S-3-4-211214 Lab Sample ID: 860-17303-14

Date Collected: 12/14/21 14:30 **Matrix: Solid**
Date Received: 12/15/21 10:21 **Percent Solids: 89.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35424	12/23/21 17:05	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 23:18	T1S	XEN STF
Total/NA	Prep	300_Prep			4.90 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 12:04	ANP	XEN STF

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Xenco, Stafford

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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	1306	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17303-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
9056A	Anions, Ion Chromatography	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
5030C	Purge and Trap	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF

Protocol References:

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

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.

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 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: 860-17303-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-17303-1	Cell19-Square128-S-3-4-211214	Solid	12/14/21 09:10	12/15/21 10:21
860-17303-2	Cell19-Square27-S-3-4-211214	Solid	12/14/21 10:00	12/15/21 10:21
860-17303-3	Cell20-Square18-S-3-4-211214	Solid	12/14/21 10:30	12/15/21 10:21
860-17303-4	Cell20-Square41-S-3-4-211214	Solid	12/14/21 10:45	12/15/21 10:21
860-17303-5	Cell20-Square14-S-3-4-211214	Solid	12/14/21 11:05	12/15/21 10:21
860-17303-6	Cell20-Square170-S-3-4-211214	Solid	12/14/21 11:20	12/15/21 10:21
860-17303-7	Cell21-Square18-S-3-4-211214	Solid	12/14/21 11:50	12/15/21 10:21
860-17303-8	Cell21-Square37-S-3-4-211214	Solid	12/14/21 12:10	12/15/21 10:21
860-17303-9	Cell21-Square117-S-3-4-211214	Solid	12/14/21 12:40	12/15/21 10:21
860-17303-10	Cell21-Square90-S-3-4-211214	Solid	12/14/21 12:55	12/15/21 10:21
860-17303-11	Cell25-Square190-S-3-4-211214	Solid	12/14/21 13:20	12/15/21 10:21
860-17303-12	Cell25-Square176-S-3-4-211214	Solid	12/14/21 13:45	12/15/21 10:21
860-17303-13	Cell25-Square33-S-3-4-211214	Solid	12/14/21 14:15	12/15/21 10:21
860-17303-14	Cell25-Square70-S-3-4-211214	Solid	12/14/21 14:30	12/15/21 10:21

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Daniel McGee	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-5911-2069.1
Client Contact: Alison Schaffer	Phone: 432-999-2280	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin:	Page: Page 1 of 2
Company: ARCADIS U.S. Inc.	PWSID:			Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Standard			
State, Zip: CO 80129-2377	Compliance Project: Δ Yes Δ No			
Phone: 303-710-7537(Tel)	PO #: Purchase Order Requested			
Email: Alison.Schaffer@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

860-17303 Chain of Custody

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B BTEX	8016MOD_NM GRO/DRO/ORG	9056A_Chloride	moisture	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	N		
Cell 19 - Square 128 - S - 3-4-211214	12-14-21	0910	G	Solid			X	X	X	X	4	
Cell 19 - Square 27 - S - 3-4-211214	12-14-21	1000	G	Solid			X	X	X	X	4	
Cell 20 - Square 18 - S - 3-4 - 211214	12-14-21	1030	G	Solid			X	X	X	X	4	
Cell 20 - Square 41 - S - 3-4-211214	12-14-21	1045	G	Solid			X	X	X	X	4	
Cell 20 - Square 14 - S - 3-4-211214	12-14-21	1105	G	Solid			X	X	X	X	4	
Cell 20 - Square 170 - S - 3-4 - 211214	12-14-21	1120	G	Solid			X	X	X	X	4	
Cell 21 - Square 18 - S - 3-4-211214	12-14-21	1150	G	Solid			X	X	X	X	4	
Cell 21 - Square 37 - S - 3-4-211214	12-14-21	1210	G	Solid			X	X	X	X	4	
Cell 21 - Square 117 - S - 3-4-211214	12-14-21	1240	G	Solid			X	X	X	X	4	
Cell 21 - Square 90 - S - 3-4-211214	12-14-21	1255	G	Solid			X	X	X	X	4	
Cell 25 - Square 196 - S - 3-4-211214	12-14-21	1320	G	Solid			X	X	X	X	4	

Temp. 3.8 IR ID:HOU-223
C/F +0.0
Corrected Temp: 3.8

Possible Hazard Identification
X 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 X 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
	12-14-21 / 1750	Arcadis	FEX		
Relinquished by: FEX	Date/Time:	Company	Received by:	Date/Time: (2/15/21 1021	Company FEX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver 01/16/2019

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eur- afford
4145 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

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Client Information	Sampler: Daniel McBee	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-5911-2069.1
Client Contact: Alison Schaffer	Phone: 432-999-2980	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin:	Page: Page 1 of 2
Company: ARCADIS U.S. Inc.	PWSID:	Analysis Requested		Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			Preservation Codes: A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify); Other:
City: Highlands Ranch	TAT Requested (days): Standard			
State, Zip: CO, 80129-2377	Compliance Project: Δ Yes Δ No			
Phone: 303-710-7537(Tel)	PO #: Purchase Order Requested			
Email: Alison.Schaffer@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B BTEX	8015MOD_NM GRO/DRO/ORO	9056A_Chloride	moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
Cell 25 - Square 176-S-3-4-211214	12-14-21	1315	G	Solid			X	X	X	X	4	
Cell 25 - Square 33-S-3-4-211214	12-14-21	1415	G	Solid			X	X	X	X	4	
Cell 25 - Square 70 S-3-4-211214	12-14-21	1430	G	Solid			X	X	X	X	4	
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

MM 12-14-21

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12-14-21 / 1750	Arcadis	FEx		
Relinquished by: FEx	Date/Time:	Company	Received by:	Date/Time: 12/15/21 1021	Company FEx
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-17303-1

Login Number: 17303 **List Source: Eurofins Xenco, Stafford**
List Number: 1
Creator: Palmar, Pedro

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	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-17303-1

Login Number: 17303 **List Source: Eurofins Xenco, Stafford**
List Number: 2
Creator: Palmar, Pedro

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

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ANALYTICAL REPORT

Eurofins Xenco, Stafford
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-17465-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
12/29/2021 6:45:46 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 860-17465-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

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

GC Semi 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.

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.
¤	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. Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-17465-1

Laboratory: Eurofins Xenco, Stafford

Narrative

Job Narrative
860-17465-1

Receipt
The samples were received on 12/16/2021 10:29 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

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

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

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

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square210-S-3-4-211215 — Lab Sample ID: 860-17465-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.20	J	10.9	3.87	mg/Kg	1	☼	9056A	Total/NA
Fluoride	2.28	J	5.46	1.09	mg/Kg	1	☼	9056A	Total/NA
Sulfate	17.0		10.9	4.72	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell26-Square183-S-3-4-211215 — Lab Sample ID: 860-17465-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.71	J	11.0	3.91	mg/Kg	1	☼	9056A	Total/NA
Fluoride	4.71	J	5.52	1.10	mg/Kg	1	☼	9056A	Total/NA
Sulfate	20.8		11.0	4.77	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell26-Square74-S-3-4-211215 — Lab Sample ID: 860-17465-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.17	J	12.8	4.51	mg/Kg	1	☼	9056A	Total/NA
Fluoride	2.96	J	6.38	1.28	mg/Kg	1	☼	9056A	Total/NA
Sulfate	49.5		12.8	5.51	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell26-Square8-S-3-4-211215 — Lab Sample ID: 860-17465-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.64	J	13.4	4.76	mg/Kg	1	☼	9056A	Total/NA
Fluoride	8.74		6.72	1.34	mg/Kg	1	☼	9056A	Total/NA
Sulfate	62.1		13.4	5.81	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell26-Treatment-S-3-4-211215 — Lab Sample ID: 860-17465-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (Over C10-C28) - RA	125		50.4	21.3	mg/Kg	1	☼	8015B NM	Total/NA
Oil Range Organics (Over C28-C36) - RA	85.4		50.4	21.3	mg/Kg	1	☼	8015B NM	Total/NA
Chloride	5.35	J	10.3	3.66	mg/Kg	1	☼	9056A	Total/NA
Sulfate	24.9		10.3	4.47	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell25-Treatment-S-3-4-211215 — Lab Sample ID: 860-17465-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.33	J	10.1	3.57	mg/Kg	1	☼	9056A	Total/NA
Fluoride	1.88	J	5.04	1.01	mg/Kg	1	☼	9056A	Total/NA
Sulfate	7.56	J	10.1	4.35	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell21-Treatment-S-3-4-211215 — Lab Sample ID: 860-17465-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (Over C10-C28)	66.3		51.5	21.7	mg/Kg	1	☼	8015B NM	Total/NA
Oil Range Organics (Over C28-C36)	35.2	J	51.5	21.7	mg/Kg	1	☼	8015B NM	Total/NA
Chloride	5.95	J	10.1	3.59	mg/Kg	1	☼	9056A	Total/NA
Fluoride	4.59	J	5.07	1.01	mg/Kg	1	☼	9056A	Total/NA
Sulfate	83.4		10.1	4.38	mg/Kg	1	☼	9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Stafford

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square210-S-3-4-211215 Lab Sample ID: 860-17465-1

Date Collected: 12/15/21 08:40 **Matrix: Solid**
Date Received: 12/16/21 10:29 **Percent Solids: 90.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000228	U	0.00110	0.000228	mg/Kg	☼	12/20/21 16:30	12/23/21 16:18	1
Toluene	0.00110	U	0.00552	0.00110	mg/Kg	☼	12/20/21 16:30	12/23/21 16:18	1
Ethylbenzene	0.000370	U	0.00110	0.000370	mg/Kg	☼	12/20/21 16:30	12/23/21 16:18	1
m,p-Xylenes	0.000883	U	0.00221	0.000883	mg/Kg	☼	12/20/21 16:30	12/23/21 16:18	1
o-Xylene	0.00109	U	0.00110	0.00109	mg/Kg	☼	12/20/21 16:30	12/23/21 16:18	1
Xylenes, Total	0.00109	U	0.00221	0.00109	mg/Kg	☼	12/20/21 16:30	12/23/21 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*126*		*56 - 150*	*12/20/21 16:30*	*12/23/21 16:18*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*	*12/20/21 16:30*	*12/23/21 16:18*	*1*
Dibromofluoromethane (Surr)	*112*		*53 - 142*	*12/20/21 16:30*	*12/23/21 16:18*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*12/20/21 16:30*	*12/23/21 16:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.4	U	55.4	23.4	mg/Kg	☼	12/27/21 14:17	12/28/21 23:36	1
Diesel Range Organics (Over C10-C28)	23.4	U	55.4	23.4	mg/Kg	☼	12/27/21 14:17	12/28/21 23:36	1
OII Range Organics (Over C28-C36)	23.4	U	55.4	23.4	mg/Kg	☼	12/27/21 14:17	12/28/21 23:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*65 - 130*	*12/27/21 14:17*	*12/28/21 23:36*	*1*
o-Terphenyl (Surr)	*113*		*65 - 130*	*12/27/21 14:17*	*12/28/21 23:36*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.20**	**J**	10.9	3.87	mg/Kg	☼	12/21/21 19:01	12/22/21 12:17	1
Fluoride	**2.28**	**J**	5.46	1.09	mg/Kg	☼	12/21/21 19:01	12/22/21 12:17	1
Sulfate	**17.0**		10.9	4.72	mg/Kg	☼	12/21/21 19:01	12/22/21 12:17	1

Client Sample ID: Cell26-Square183-S-3-4-211215 Lab Sample ID: 860-17465-2

Date Collected: 12/15/21 09:10 **Matrix: Solid**
Date Received: 12/16/21 10:29 **Percent Solids: 90.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000231	U	0.00111	0.000231	mg/Kg	☼	12/20/21 16:30	12/23/21 16:39	1
Toluene	0.00111	U	0.00557	0.00111	mg/Kg	☼	12/20/21 16:30	12/23/21 16:39	1
Ethylbenzene	0.000374	U	0.00111	0.000374	mg/Kg	☼	12/20/21 16:30	12/23/21 16:39	1
m,p-Xylenes	0.000892	U	0.00223	0.000892	mg/Kg	☼	12/20/21 16:30	12/23/21 16:39	1
o-Xylene	0.00110	U	0.00111	0.00110	mg/Kg	☼	12/20/21 16:30	12/23/21 16:39	1
Xylenes, Total	0.00110	U	0.00223	0.00110	mg/Kg	☼	12/20/21 16:30	12/23/21 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*136*		*56 - 150*	*12/20/21 16:30*	*12/23/21 16:39*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*12/20/21 16:30*	*12/23/21 16:39*	*1*
Dibromofluoromethane (Surr)	*112*		*53 - 142*	*12/20/21 16:30*	*12/23/21 16:39*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*12/20/21 16:30*	*12/23/21 16:39*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square183-S-3-4-211215 Lab Sample ID: 860-17465-2

Date Collected: 12/15/21 09:10 **Matrix: Solid**
Date Received: 12/16/21 10:29 **Percent Solids: 90.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.1	U	54.7	23.1	mg/Kg	☼	12/27/21 14:17	12/28/21 01:15	1
Diesel Range Organics (Over C10-C28)	23.1	U	54.7	23.1	mg/Kg	☼	12/27/21 14:17	12/28/21 01:15	1
OII Range Organics (Over C28-C36)	23.1	U	54.7	23.1	mg/Kg	☼	12/27/21 14:17	12/28/21 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*65 - 130*	*12/27/21 14:17*	*12/28/21 01:15*	*1*
o-Terphenyl (Surr)	*115*		*65 - 130*	*12/27/21 14:17*	*12/28/21 01:15*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.71**	**J**	11.0	3.91	mg/Kg	☼	12/21/21 19:01	12/22/21 12:30	1
Fluoride	**4.71**	**J**	5.52	1.10	mg/Kg	☼	12/21/21 19:01	12/22/21 12:30	1
Sulfate	**20.8**		11.0	4.77	mg/Kg	☼	12/21/21 19:01	12/22/21 12:30	1

Client Sample ID: Cell26-Square74-S-3-4-211215 Lab Sample ID: 860-17465-3

Date Collected: 12/15/21 09:45 **Matrix: Solid**
Date Received: 12/16/21 10:29 **Percent Solids: 77.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000263	U	0.00127	0.000263	mg/Kg	☼	12/20/21 16:30	12/23/21 17:00	1
Toluene	0.00127	U	0.00636	0.00127	mg/Kg	☼	12/20/21 16:30	12/23/21 17:00	1
Ethylbenzene	0.000427	U	0.00127	0.000427	mg/Kg	☼	12/20/21 16:30	12/23/21 17:00	1
m,p-Xylenes	0.00102	U	0.00255	0.00102	mg/Kg	☼	12/20/21 16:30	12/23/21 17:00	1
o-Xylene	0.00125	U	0.00127	0.00125	mg/Kg	☼	12/20/21 16:30	12/23/21 17:00	1
Xylenes, Total	0.00125	U	0.00255	0.00125	mg/Kg	☼	12/20/21 16:30	12/23/21 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*56 - 150*	*12/20/21 16:30*	*12/23/21 17:00*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*12/20/21 16:30*	*12/23/21 17:00*	*1*
Dibromofluoromethane (Surr)	*120*		*53 - 142*	*12/20/21 16:30*	*12/23/21 17:00*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*12/20/21 16:30*	*12/23/21 17:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.0	U	64.0	27.0	mg/Kg	☼	12/27/21 14:17	12/28/21 01:35	1
Diesel Range Organics (Over C10-C28)	27.0	U	64.0	27.0	mg/Kg	☼	12/27/21 14:17	12/28/21 01:35	1
OII Range Organics (Over C28-C36)	27.0	U	64.0	27.0	mg/Kg	☼	12/27/21 14:17	12/28/21 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*65 - 130*	*12/27/21 14:17*	*12/28/21 01:35*	*1*
o-Terphenyl (Surr)	*111*		*65 - 130*	*12/27/21 14:17*	*12/28/21 01:35*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.17**	**J**	12.8	4.51	mg/Kg	☼	12/21/21 19:01	12/22/21 12:43	1
Fluoride	**2.96**	**J**	6.38	1.28	mg/Kg	☼	12/21/21 19:01	12/22/21 12:43	1
Sulfate	**49.5**		12.8	5.51	mg/Kg	☼	12/21/21 19:01	12/22/21 12:43	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square8-S-3-4-211215 Lab Sample ID: 860-17465-4

Date Collected: 12/15/21 10:15 **Matrix: Solid**
Date Received: 12/16/21 10:29 **Percent Solids: 75.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000278	U	0.00134	0.000278	mg/Kg	☼	12/20/21 16:30	12/23/21 17:20	1
Toluene	0.00134	U	0.00672	0.00134	mg/Kg	☼	12/20/21 16:30	12/23/21 17:20	1
Ethylbenzene	0.000451	U	0.00134	0.000451	mg/Kg	☼	12/20/21 16:30	12/23/21 17:20	1
m,p-Xylenes	0.00108	U	0.00269	0.00108	mg/Kg	☼	12/20/21 16:30	12/23/21 17:20	1
o-Xylene	0.00132	U	0.00134	0.00132	mg/Kg	☼	12/20/21 16:30	12/23/21 17:20	1
Xylenes, Total	0.00132	U	0.00269	0.00132	mg/Kg	☼	12/20/21 16:30	12/23/21 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*135*		*56 - 150*	*12/20/21 16:30*	*12/23/21 17:20*	*1*
4-Bromofluorobenzene (Surr)	*95*		*68 - 152*	*12/20/21 16:30*	*12/23/21 17:20*	*1*
Dibromofluoromethane (Surr)	*117*		*53 - 142*	*12/20/21 16:30*	*12/23/21 17:20*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*12/20/21 16:30*	*12/23/21 17:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	28.2	U	66.9	28.2	mg/Kg	☼	12/27/21 14:17	12/28/21 01:55	1
Diesel Range Organics (Over C10-C28)	28.2	U	66.9	28.2	mg/Kg	☼	12/27/21 14:17	12/28/21 01:55	1
OII Range Organics (Over C28-C36)	28.2	U	66.9	28.2	mg/Kg	☼	12/27/21 14:17	12/28/21 01:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*65 - 130*	*12/27/21 14:17*	*12/28/21 01:55*	*1*
o-Terphenyl (Surr)	*117*		*65 - 130*	*12/27/21 14:17*	*12/28/21 01:55*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.64**	**J**	13.4	4.76	mg/Kg	☼	12/21/21 19:01	12/22/21 12:56	1
Fluoride	**8.74**		6.72	1.34	mg/Kg	☼	12/21/21 19:01	12/22/21 12:56	1
Sulfate	**62.1**		13.4	5.81	mg/Kg	☼	12/21/21 19:01	12/22/21 12:56	1

Client Sample ID: Cell26-Treatment-S-3-4-211215 Lab Sample ID: 860-17465-5

Date Collected: 12/15/21 11:55 **Matrix: Solid**
Date Received: 12/16/21 10:29 **Percent Solids: 98.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.3	U	50.4	21.3	mg/Kg	☼	12/27/21 14:17	12/28/21 14:01	1
Diesel Range Organics (Over C10-C28)	**125**		50.4	21.3	mg/Kg	☼	12/27/21 14:17	12/28/21 14:01	1
OII Range Organics (Over C28-C36)	**85.4**		50.4	21.3	mg/Kg	☼	12/27/21 14:17	12/28/21 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*65 - 130*	*12/27/21 14:17*	*12/28/21 14:01*	*1*
o-Terphenyl (Surr)	*113*		*65 - 130*	*12/27/21 14:17*	*12/28/21 14:01*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.35**	**J**	10.3	3.66	mg/Kg	☼	12/21/21 19:01	12/22/21 13:34	1
Fluoride	1.03	U	5.17	1.03	mg/Kg	☼	12/21/21 19:01	12/22/21 13:34	1
Sulfate	**24.9**		10.3	4.47	mg/Kg	☼	12/21/21 19:01	12/22/21 13:34	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Treatment-S-3-4-211215 Lab Sample ID: 860-17465-6

Date Collected: 12/15/21 12:55 **Matrix: Solid**
Date Received: 12/16/21 10:29 **Percent Solids: 97.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.4	U	50.8	21.4	mg/Kg	☼	12/27/21 14:17	12/28/21 02:15	1
Diesel Range Organics (Over C10-C28)	21.4	U	50.8	21.4	mg/Kg	☼	12/27/21 14:17	12/28/21 02:15	1
OII Range Organics (Over C28-C36)	21.4	U	50.8	21.4	mg/Kg	☼	12/27/21 14:17	12/28/21 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*65 - 130*	*12/27/21 14:17*	*12/28/21 02:15*	*1*
o-Terphenyl (Surr)	*115*		*65 - 130*	*12/27/21 14:17*	*12/28/21 02:15*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.33**	**J**	10.1	3.57	mg/Kg	☼	12/21/21 19:01	12/22/21 13:47	1
Fluoride	**1.88**	**J**	5.04	1.01	mg/Kg	☼	12/21/21 19:01	12/22/21 13:47	1
Sulfate	**7.56**	**J**	10.1	4.35	mg/Kg	☼	12/21/21 19:01	12/22/21 13:47	1

Client Sample ID: Cell21-Treatment-S-3-4-211215 Lab Sample ID: 860-17465-7

Date Collected: 12/15/21 14:00 **Matrix: Solid**
Date Received: 12/16/21 10:29 **Percent Solids: 96.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.7	U	51.5	21.7	mg/Kg	☼	12/27/21 14:22	12/28/21 03:58	1
Diesel Range Organics (Over C10-C28)	**66.3**		51.5	21.7	mg/Kg	☼	12/27/21 14:22	12/28/21 03:58	1
OII Range Organics (Over C28-C36)	**35.2**	**J**	51.5	21.7	mg/Kg	☼	12/27/21 14:22	12/28/21 03:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*65 - 130*	*12/27/21 14:22*	*12/28/21 03:58*	*1*
o-Terphenyl (Surr)	*113*		*65 - 130*	*12/27/21 14:22*	*12/28/21 03:58*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.95**	**J**	10.1	3.59	mg/Kg	☼	12/21/21 19:01	12/22/21 14:26	1
Fluoride	**4.59**	**J**	5.07	1.01	mg/Kg	☼	12/21/21 19:01	12/22/21 14:26	1
Sulfate	**83.4**		10.1	4.38	mg/Kg	☼	12/21/21 19:01	12/22/21 14:26	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
860-17465-1	Cell26-Square210-S-3-4-211215	126	96	112	96
860-17465-2	Cell26-Square183-S-3-4-211215	136	97	112	94
860-17465-3	Cell26-Square74-S-3-4-211215	118	102	120	96
860-17465-4	Cell26-Square8-S-3-4-211215	135	95	117	99
LCS 860-35454/3	Lab Control Sample	99	100	111	99
LCSD 860-35454/4	Lab Control Sample Dup	100	101	108	100
MB 860-35454/8	Method Blank	118	100	110	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(65-130)	(65-130)
860-17465-1	Cell26-Square210-S-3-4-211215	105	113
860-17465-2	Cell26-Square183-S-3-4-211215	117	115
860-17465-3	Cell26-Square74-S-3-4-211215	112	111
860-17465-4	Cell26-Square8-S-3-4-211215	119	117
860-17465-5 - RA	Cell26-Treatment-S-3-4-211215	105	113
860-17465-6	Cell25-Treatment-S-3-4-211215	117	115
860-17465-7	Cell21-Treatment-S-3-4-211215	102	113
860-17465-7 MS	Cell21-Treatment-S-3-4-211215	114	94
860-17465-7 MSD	Cell21-Treatment-S-3-4-211215	107	96
LCS 860-35668/2-A	Lab Control Sample	124	110
LCS 860-35671/2-A	Lab Control Sample	112	108
LCSD 860-35668/3-A	Lab Control Sample Dup	121	108
LCSD 860-35671/3-A	Lab Control Sample Dup	105	102
MB 860-35668/1-A	Method Blank	104	113
MB 860-35671/1-A	Method Blank	99	110

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-35454/8 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35454

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			12/23/21 14:15	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			12/23/21 14:15	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			12/23/21 14:15	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			12/23/21 14:15	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			12/23/21 14:15	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			12/23/21 14:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*56 - 150*		*12/23/21 14:15*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*		*12/23/21 14:15*	*1*
Dibromofluoromethane (Surr)	*110*		*53 - 142*		*12/23/21 14:15*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*12/23/21 14:15*	*1*

Lab Sample ID: LCS 860-35454/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35454

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.04019		mg/Kg		80	66 - 142		
Toluene			0.0500	0.04133		mg/Kg		83	74 - 130		
Ethylbenzene			0.0500	0.04424		mg/Kg		88	80 - 130		
m,p-Xylenes			0.0500	0.04379		mg/Kg		88	78 - 130		
o-Xylene			0.0500	0.04509		mg/Kg		90	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*
Dibromofluoromethane (Surr)	*111*		*53 - 142*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 860-35454/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35454

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0500	0.04589		mg/Kg		92	66 - 142	13	25
Toluene			0.0500	0.04792		mg/Kg		96	74 - 130	15	25
Ethylbenzene			0.0500	0.05063		mg/Kg		101	80 - 130	13	25
m,p-Xylenes			0.0500	0.05071		mg/Kg		101	78 - 130	15	25
o-Xylene			0.0500	0.05023		mg/Kg		100	79 - 130	11	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*
Dibromofluoromethane (Surr)	*108*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-35668/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35803 — **Prep Batch: 35668**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:17	12/28/21 17:38	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:17	12/28/21 17:38	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:17	12/28/21 17:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*65 - 130*	*12/27/21 14:17*	*12/28/21 17:38*	*1*
o-Terphenyl (Surr)	*113*		*65 - 130*	*12/27/21 14:17*	*12/28/21 17:38*	*1*

Lab Sample ID: LCS 860-35668/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35803 — **Prep Batch: 35668**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	994	1098		mg/Kg		110	70 - 135
Diesel Range Organics (Over C10-C28)	994	1138		mg/Kg		114	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*124*		*65 - 130*
o-Terphenyl (Surr)	*110*		*65 - 130*

Lab Sample ID: LCSD 860-35668/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35803 — **Prep Batch: 35668**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	994	1125		mg/Kg		113	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	994	1186		mg/Kg		119	70 - 135	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*121*		*65 - 130*
o-Terphenyl (Surr)	*108*		*65 - 130*

Lab Sample ID: MB 860-35671/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 35606 — **Prep Batch: 35671**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:22	12/28/21 02:46	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:22	12/28/21 02:46	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:22	12/28/21 02:46	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-35671/1-A
Matrix: Solid
Analysis Batch: 35606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35671

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		65 - 130	12/27/21 14:22	12/28/21 02:46	1
o-Terphenyl (Surr)	110		65 - 130	12/27/21 14:22	12/28/21 02:46	1

Lab Sample ID: LCS 860-35671/2-A
Matrix: Solid
Analysis Batch: 35606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35671

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	994	1031		mg/Kg		104	70 - 135
Diesel Range Organics (Over C10-C28)	994	1077		mg/Kg		108	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	112		65 - 130
o-Terphenyl (Surr)	108		65 - 130

Lab Sample ID: LCSD 860-35671/3-A
Matrix: Solid
Analysis Batch: 35606

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35671

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	994	1050		mg/Kg		106	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	994	1013		mg/Kg		102	70 - 135	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		65 - 130
o-Terphenyl (Surr)	102		65 - 130

Lab Sample ID: 860-17465-7 MS
Matrix: Solid
Analysis Batch: 35606

Client Sample ID: Cell21-Treatment-S-3-4-211215
Prep Type: Total/NA
Prep Batch: 35671

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	21.7	U	1020	1061		mg/Kg	☼	104	70 - 135
Diesel Range Organics (Over C10-C28)	66.3		1020	1156		mg/Kg	☼	107	70 - 135

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	114		65 - 130
o-Terphenyl (Surr)	94		65 - 130

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: 860-17465-7 MSD **Client Sample ID: Cell21-Treatment-S-3-4-211215**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35606 **Prep Batch: 35671**

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	21.7	U	1030	1140		mg/Kg	☼	111	70 - 135	7	35
Diesel Range Organics (Over C10-C28)	66.3		1030	1144		mg/Kg	☼	105	70 - 135	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*107*		*65 - 130*
o-Terphenyl (Surr)	*96*		*65 - 130*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-35181/57-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35123 **Prep Batch: 35181**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		12/21/21 19:01	12/22/21 09:17	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		12/21/21 19:01	12/22/21 09:17	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		12/21/21 19:01	12/22/21 09:17	1

Lab Sample ID: LCS 860-35181/58-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35123 **Prep Batch: 35181**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	101.6		mg/Kg		102	80 - 120
Fluoride	100	104.3		mg/Kg		104	80 - 120
Sulfate	100	99.30		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 860-35181/59-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35123 **Prep Batch: 35181**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	100.5		mg/Kg		100	80 - 120	1	20
Fluoride	100	103.9		mg/Kg		104	80 - 120	0	20
Sulfate	100	98.76		mg/Kg		99	80 - 120	1	20

Lab Sample ID: 860-17465-4 MS **Client Sample ID: Cell26-Square8-S-3-4-211215**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35123 **Prep Batch: 35181**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.64	J	134	136.8		mg/Kg	☼	98	80 - 120
Fluoride	8.74		134	142.4		mg/Kg	☼	100	80 - 120
Sulfate	62.1		134	197.2		mg/Kg	☼	101	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-17465-4 MSD **Client Sample ID: Cell26-Square8-S-3-4-211215**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35123 **Prep Batch: 35181**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.64	J	131	133.6		mg/Kg	☼	98	80 - 120	2	20
Fluoride	8.74		131	139.3		mg/Kg	☼	99	80 - 120	2	20
Sulfate	62.1		131	193.0		mg/Kg	☼	100	80 - 120	2	20

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 35035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-1	Cell26-Square210-S-3-4-211215	Total/NA	Solid	5030C	
860-17465-2	Cell26-Square183-S-3-4-211215	Total/NA	Solid	5030C	
860-17465-3	Cell26-Square74-S-3-4-211215	Total/NA	Solid	5030C	
860-17465-4	Cell26-Square8-S-3-4-211215	Total/NA	Solid	5030C	

Analysis Batch: 35454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-1	Cell26-Square210-S-3-4-211215	Total/NA	Solid	8260C	35035
860-17465-2	Cell26-Square183-S-3-4-211215	Total/NA	Solid	8260C	35035
860-17465-3	Cell26-Square74-S-3-4-211215	Total/NA	Solid	8260C	35035
860-17465-4	Cell26-Square8-S-3-4-211215	Total/NA	Solid	8260C	35035
MB 860-35454/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-35454/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-35454/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC Semi VOA

Analysis Batch: 35606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-7	Cell21-Treatment-S-3-4-211215	Total/NA	Solid	8015B NM	35671
MB 860-35671/1-A	Method Blank	Total/NA	Solid	8015B NM	35671
LCS 860-35671/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35671
LCSD 860-35671/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35671
860-17465-7 MS	Cell21-Treatment-S-3-4-211215	Total/NA	Solid	8015B NM	35671
860-17465-7 MSD	Cell21-Treatment-S-3-4-211215	Total/NA	Solid	8015B NM	35671

Prep Batch: 35668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-1	Cell26-Square210-S-3-4-211215	Total/NA	Solid	8015NM Prep	
860-17465-2	Cell26-Square183-S-3-4-211215	Total/NA	Solid	8015NM Prep	
860-17465-3	Cell26-Square74-S-3-4-211215	Total/NA	Solid	8015NM Prep	
860-17465-4	Cell26-Square8-S-3-4-211215	Total/NA	Solid	8015NM Prep	
860-17465-5 - RA	Cell26-Treatment-S-3-4-211215	Total/NA	Solid	8015NM Prep	
860-17465-6	Cell25-Treatment-S-3-4-211215	Total/NA	Solid	8015NM Prep	
MB 860-35668/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-35668/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-35668/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 35671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-7	Cell21-Treatment-S-3-4-211215	Total/NA	Solid	8015NM Prep	
MB 860-35671/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-35671/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-35671/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
860-17465-7 MS	Cell21-Treatment-S-3-4-211215	Total/NA	Solid	8015NM Prep	
860-17465-7 MSD	Cell21-Treatment-S-3-4-211215	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-2	Cell26-Square183-S-3-4-211215	Total/NA	Solid	8015B NM	35668
860-17465-3	Cell26-Square74-S-3-4-211215	Total/NA	Solid	8015B NM	35668

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Analysis Batch: 35711 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-4	Cell26-Square8-S-3-4-211215	Total/NA	Solid	8015B NM	35668
860-17465-6	Cell25-Treatment-S-3-4-211215	Total/NA	Solid	8015B NM	35668

Analysis Batch: 35803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-1	Cell26-Square210-S-3-4-211215	Total/NA	Solid	8015B NM	35668
860-17465-5 - RA	Cell26-Treatment-S-3-4-211215	Total/NA	Solid	8015B NM	35668
MB 860-35668/1-A	Method Blank	Total/NA	Solid	8015B NM	35668
LCS 860-35668/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35668
LCSD 860-35668/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35668

HPLC/IC

Analysis Batch: 35123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-1	Cell26-Square210-S-3-4-211215	Total/NA	Solid	9056A	35181
860-17465-2	Cell26-Square183-S-3-4-211215	Total/NA	Solid	9056A	35181
860-17465-3	Cell26-Square74-S-3-4-211215	Total/NA	Solid	9056A	35181
860-17465-4	Cell26-Square8-S-3-4-211215	Total/NA	Solid	9056A	35181
860-17465-5	Cell26-Treatment-S-3-4-211215	Total/NA	Solid	9056A	35181
860-17465-6	Cell25-Treatment-S-3-4-211215	Total/NA	Solid	9056A	35181
860-17465-7	Cell21-Treatment-S-3-4-211215	Total/NA	Solid	9056A	35181
MB 860-35181/57-A	Method Blank	Total/NA	Solid	9056A	35181
LCS 860-35181/58-A	Lab Control Sample	Total/NA	Solid	9056A	35181
LCSD 860-35181/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	35181
860-17465-4 MS	Cell26-Square8-S-3-4-211215	Total/NA	Solid	9056A	35181
860-17465-4 MSD	Cell26-Square8-S-3-4-211215	Total/NA	Solid	9056A	35181

Prep Batch: 35181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-1	Cell26-Square210-S-3-4-211215	Total/NA	Solid	300_Prep	
860-17465-2	Cell26-Square183-S-3-4-211215	Total/NA	Solid	300_Prep	
860-17465-3	Cell26-Square74-S-3-4-211215	Total/NA	Solid	300_Prep	
860-17465-4	Cell26-Square8-S-3-4-211215	Total/NA	Solid	300_Prep	
860-17465-5	Cell26-Treatment-S-3-4-211215	Total/NA	Solid	300_Prep	
860-17465-6	Cell25-Treatment-S-3-4-211215	Total/NA	Solid	300_Prep	
860-17465-7	Cell21-Treatment-S-3-4-211215	Total/NA	Solid	300_Prep	
MB 860-35181/57-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-35181/58-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-35181/59-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-17465-4 MS	Cell26-Square8-S-3-4-211215	Total/NA	Solid	300_Prep	
860-17465-4 MSD	Cell26-Square8-S-3-4-211215	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 34907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-1	Cell26-Square210-S-3-4-211215	Total/NA	Solid	Moisture - 2540	
860-17465-2	Cell26-Square183-S-3-4-211215	Total/NA	Solid	Moisture - 2540	
860-17465-3	Cell26-Square74-S-3-4-211215	Total/NA	Solid	Moisture - 2540	
860-17465-4	Cell26-Square8-S-3-4-211215	Total/NA	Solid	Moisture - 2540	
860-17465-5	Cell26-Treatment-S-3-4-211215	Total/NA	Solid	Moisture - 2540	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry (Continued)

Analysis Batch: 34907 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-6	Cell25-Treatment-S-3-4-211215	Total/NA	Solid	Moisture - 2540	
860-17465-7	Cell21-Treatment-S-3-4-211215	Total/NA	Solid	Moisture - 2540	
MB 860-34907/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square210-S-3-4-211215 Lab Sample ID: 860-17465-1

Date Collected: 12/15/21 08:40 **Matrix: Solid**
Date Received: 12/16/21 10:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell26-Square210-S-3-4-211215 Lab Sample ID: 860-17465-1

Date Collected: 12/15/21 08:40 **Matrix: Solid**
Date Received: 12/16/21 10:29 **Percent Solids: 90.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	35035	12/20/21 16:30	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35454	12/23/21 16:18	KLV	XEN STF
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 23:36	T1S	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 12:17	ANP	XEN STF

Client Sample ID: Cell26-Square183-S-3-4-211215 Lab Sample ID: 860-17465-2

Date Collected: 12/15/21 09:10 **Matrix: Solid**
Date Received: 12/16/21 10:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell26-Square183-S-3-4-211215 Lab Sample ID: 860-17465-2

Date Collected: 12/15/21 09:10 **Matrix: Solid**
Date Received: 12/16/21 10:29 **Percent Solids: 90.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.98 g	5 mL	35035	12/20/21 16:30	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35454	12/23/21 16:39	KLV	XEN STF
Total/NA	Prep	8015NM Prep			10.14 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35711	12/28/21 01:15	T1S	XEN STF
Total/NA	Prep	300_Prep			5.03 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 12:30	ANP	XEN STF

Client Sample ID: Cell26-Square74-S-3-4-211215 Lab Sample ID: 860-17465-3

Date Collected: 12/15/21 09:45 **Matrix: Solid**
Date Received: 12/16/21 10:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square74-S-3-4-211215 Lab Sample ID: 860-17465-3

Date Collected: 12/15/21 09:45 **Matrix: Solid**
Date Received: 12/16/21 10:29 **Percent Solids: 77.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	35035	12/20/21 16:30	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35454	12/23/21 17:00	KLV	XEN STF
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35711	12/28/21 01:35	T1S	XEN STF
Total/NA	Prep	300_Prep			5.04 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 12:43	ANP	XEN STF

Client Sample ID: Cell26-Square8-S-3-4-211215 Lab Sample ID: 860-17465-4

Date Collected: 12/15/21 10:15 **Matrix: Solid**
Date Received: 12/16/21 10:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell26-Square8-S-3-4-211215 Lab Sample ID: 860-17465-4

Date Collected: 12/15/21 10:15 **Matrix: Solid**
Date Received: 12/16/21 10:29 **Percent Solids: 75.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.96 g	5 mL	35035	12/20/21 16:30	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35454	12/23/21 17:20	KLV	XEN STF
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35711	12/28/21 01:55	T1S	XEN STF
Total/NA	Prep	300_Prep			4.96 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 12:56	ANP	XEN STF

Client Sample ID: Cell26-Treatment-S-3-4-211215 Lab Sample ID: 860-17465-5

Date Collected: 12/15/21 11:55 **Matrix: Solid**
Date Received: 12/16/21 10:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell26-Treatment-S-3-4-211215 Lab Sample ID: 860-17465-5

Date Collected: 12/15/21 11:55 **Matrix: Solid**
Date Received: 12/16/21 10:29 **Percent Solids: 98.3**

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	RA		10.09 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM	RA	1			35803	12/28/21 14:01	T1S	XEN STF
Total/NA	Prep	300_Prep			4.92 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 13:34	ANP	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Treatment-S-3-4-211215 Lab Sample ID: 860-17465-6

Date Collected: 12/15/21 12:55 **Matrix: Solid**
Date Received: 12/16/21 10:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell25-Treatment-S-3-4-211215 Lab Sample ID: 860-17465-6

Date Collected: 12/15/21 12:55 **Matrix: Solid**
Date Received: 12/16/21 10:29 **Percent Solids: 97.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35711	12/28/21 02:15	T1S	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 13:47	ANP	XEN STF

Client Sample ID: Cell21-Treatment-S-3-4-211215 Lab Sample ID: 860-17465-7

Date Collected: 12/15/21 14:00 **Matrix: Solid**
Date Received: 12/16/21 10:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell21-Treatment-S-3-4-211215 Lab Sample ID: 860-17465-7

Date Collected: 12/15/21 14:00 **Matrix: Solid**
Date Received: 12/16/21 10:29 **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	8015NM Prep			10.02 g	10 mL	35671	12/27/21 14:22	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35606	12/28/21 03:58	T1S	XEN STF
Total/NA	Prep	300_Prep			5.09 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 14:26	ANP	XEN STF

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17465-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Xenco, Stafford

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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	1306	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Method Summary

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

Job ID: 860-17465-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
9056A	Anions, Ion Chromatography	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
5030C	Purge and Trap	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF

Protocol References:

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

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.

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 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: 860-17465-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-17465-1	Cell26-Square210-S-3-4-211215	Solid	12/15/21 08:40	12/16/21 10:29
860-17465-2	Cell26-Square183-S-3-4-211215	Solid	12/15/21 09:10	12/16/21 10:29
860-17465-3	Cell26-Square74-S-3-4-211215	Solid	12/15/21 09:45	12/16/21 10:29
860-17465-4	Cell26-Square8-S-3-4-211215	Solid	12/15/21 10:15	12/16/21 10:29
860-17465-5	Cell26-Treatment-S-3-4-211215	Solid	12/15/21 11:55	12/16/21 10:29
860-17465-6	Cell25-Treatment-S-3-4-211215	Solid	12/15/21 12:55	12/16/21 10:29
860-17465-7	Cell21-Treatment-S-3-4-211215	Solid	12/15/21 14:00	12/16/21 10:29

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Daniel McCoy	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-5911-2069.1
Client Contact: Alison Schaffer	Phone: 432-999-2985	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S. Inc.	PWSID:			Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Standard			
State, Zip: CO, 80129-2377	Compliance Project: Δ Yes Δ No			
Phone: 303-710-7537(Tel)	PO #: Purchase Order Requested			
Email: Alison.Schaffer@arcadis.com	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

860-17465 Chain of Custody

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B BTEX	8015MOD_NM GRO/DRO/ORO	9056A_Chloride	moisture	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	N		
Cell 26-Square 210-S-3-4-211215	12-15-21	0840	G	Solid			X	X	X	X	4	
Cell 26-Square 183-S-3-4-211215	12-15-21	0910	G	Solid			X	X	X	X	4	
Cell 26-Square 74-S-3-4-211215	12-15-21	0945	G	Solid			X	X	X	X	4	
Cell 26 Square 8-S-3-4-211215	12-15-21	1015	G	Solid			X	X	X	X	4	
Cell 26-Treatment-S-6-211215	12-15-21	1155	C	Solid				X	X		3	
Cell 25-Treatment-S-6-211215	12-15-21	1255	C	Solid				X	X		3	
Cell 21-Treatment-S-6-211215	12-15-21	1400	C	Solid				X	X		3	
				Solid								
				Solid								
				Solid								
				Solid								

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12-15-21/1745	Arcadis	FEx		
Relinquished by: FEx	Date/Time:	Company	Received by:	Date/Time: 12/16/21 1024	Company FEx
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-17465-1

Login Number: 17465 **List Source: Eurofins Xenco, Stafford**
List Number: 1
Creator: Palmar, Pedro

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	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-17465-1

Login Number: 17465 **List Source: Eurofins Xenco, Stafford**
List Number: 2
Creator: Palmar, Pedro

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

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ANALYTICAL REPORT

Eurofins Xenco, Stafford
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-17532-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
12/29/2021 7:01:51 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 860-17532-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-17532-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC Semi 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.

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.
¤	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. Job ID: 860-17532-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-17532-1

Laboratory: Eurofins Xenco, Stafford

Narrative

Job Narrative
860-17532-1

Receipt
The samples were received on 12/17/2021 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

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

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

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

Detection Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17532-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Treatment-S-6-211216 Lab Sample ID: 860-17532-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12.8		10.4	3.68	mg/Kg	1	☼	9056A	Total/NA
Fluoride	3.59	J	5.20	1.04	mg/Kg	1	☼	9056A	Total/NA
Sulfate	22.2		10.4	4.49	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell 18-Treatment-S-6-211216 Lab Sample ID: 860-17532-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.33	J	10.3	3.65	mg/Kg	1	☼	9056A	Total/NA
Fluoride	5.45		5.16	1.03	mg/Kg	1	☼	9056A	Total/NA
Sulfate	92.2		10.3	4.45	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell 19-Treatment-S-6-211216 Lab Sample ID: 860-17532-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (Over C10-C28)	22.0	J	50.7	21.4	mg/Kg	1	☼	8015B NM	Total/NA
Chloride	6.90	J	10.2	3.61	mg/Kg	1	☼	9056A	Total/NA
Fluoride	4.95	J	5.09	1.02	mg/Kg	1	☼	9056A	Total/NA
Sulfate	139		10.2	4.40	mg/Kg	1	☼	9056A	Total/NA

Client Sample ID: Cell 20-Treatment-S-6-211216 Lab Sample ID: 860-17532-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.66	J	12.8	4.54	mg/Kg	1	☼	9056A	Total/NA
Fluoride	3.97	J	6.42	1.28	mg/Kg	1	☼	9056A	Total/NA
Sulfate	59.5		12.8	5.54	mg/Kg	1	☼	9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Stafford

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17532-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Treatment-S-6-211216 Lab Sample ID: 860-17532-1

Date Collected: 12/16/21 08:35 **Matrix: Solid**
Date Received: 12/17/21 10:25 **Percent Solids: 98.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.6	U	51.2	21.6	mg/Kg	☼	12/27/21 14:22	12/28/21 04:53	1
Diesel Range Organics (Over C10-C28)	21.6	U	51.2	21.6	mg/Kg	☼	12/27/21 14:22	12/28/21 04:53	1
Oil Range Organics (Over C28-C36)	21.6	U	51.2	21.6	mg/Kg	☼	12/27/21 14:22	12/28/21 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*65 - 130*	*12/27/21 14:22*	*12/28/21 04:53*	*1*
o-Terphenyl (Surr)	*107*		*65 - 130*	*12/27/21 14:22*	*12/28/21 04:53*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.8**		10.4	3.68	mg/Kg	☼	12/21/21 19:01	12/22/21 14:38	1
Fluoride	**3.59**	**J**	5.20	1.04	mg/Kg	☼	12/21/21 19:01	12/22/21 14:38	1
Sulfate	**22.2**		10.4	4.49	mg/Kg	☼	12/21/21 19:01	12/22/21 14:38	1

Client Sample ID: Cell 18-Treatment-S-6-211216 Lab Sample ID: 860-17532-2

Date Collected: 12/16/21 09:30 **Matrix: Solid**
Date Received: 12/17/21 10:25 **Percent Solids: 97.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.7	U	51.4	21.7	mg/Kg	☼	12/27/21 14:22	12/28/21 05:11	1
Diesel Range Organics (Over C10-C28)	21.7	U	51.4	21.7	mg/Kg	☼	12/27/21 14:22	12/28/21 05:11	1
Oil Range Organics (Over C28-C36)	21.7	U	51.4	21.7	mg/Kg	☼	12/27/21 14:22	12/28/21 05:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*65 - 130*	*12/27/21 14:22*	*12/28/21 05:11*	*1*
o-Terphenyl (Surr)	*107*		*65 - 130*	*12/27/21 14:22*	*12/28/21 05:11*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.33**	**J**	10.3	3.65	mg/Kg	☼	12/21/21 19:01	12/22/21 14:51	1
Fluoride	**5.45**		5.16	1.03	mg/Kg	☼	12/21/21 19:01	12/22/21 14:51	1
Sulfate	**92.2**		10.3	4.45	mg/Kg	☼	12/21/21 19:01	12/22/21 14:51	1

Client Sample ID: Cell 19-Treatment-S-6-211216 Lab Sample ID: 860-17532-3

Date Collected: 12/16/21 10:20 **Matrix: Solid**
Date Received: 12/17/21 10:25 **Percent Solids: 97.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.4	U	50.7	21.4	mg/Kg	☼	12/27/21 14:22	12/28/21 05:29	1
Diesel Range Organics (Over C10-C28)	**22.0**	**J**	50.7	21.4	mg/Kg	☼	12/27/21 14:22	12/28/21 05:29	1
Oil Range Organics (Over C28-C36)	21.4	U	50.7	21.4	mg/Kg	☼	12/27/21 14:22	12/28/21 05:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*65 - 130*	*12/27/21 14:22*	*12/28/21 05:29*	*1*
o-Terphenyl (Surr)	*113*		*65 - 130*	*12/27/21 14:22*	*12/28/21 05:29*	*1*

Eurofins Xenco, Stafford

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17532-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 19-Treatment-S-6-211216 Lab Sample ID: 860-17532-3

Date Collected: 12/16/21 10:20 **Matrix: Solid**
Date Received: 12/17/21 10:25 **Percent Solids: 97.8**

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.90	J	10.2	3.61	mg/Kg	☼	12/21/21 19:01	12/22/21 15:04	1
Fluoride	4.95	J	5.09	1.02	mg/Kg	☼	12/21/21 19:01	12/22/21 15:04	1
Sulfate	139		10.2	4.40	mg/Kg	☼	12/21/21 19:01	12/22/21 15:04	1

Client Sample ID: Cell 20-Treatment-S-6-211216 Lab Sample ID: 860-17532-4

Date Collected: 12/16/21 11:00 **Matrix: Solid**
Date Received: 12/17/21 10:25 **Percent Solids: 77.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.2	U	64.5	27.2	mg/Kg	☼	12/27/21 14:22	12/28/21 05:47	1
Diesel Range Organics (Over C10-C28)	27.2	U	64.5	27.2	mg/Kg	☼	12/27/21 14:22	12/28/21 05:47	1
OII Range Organics (Over C28-C36)	27.2	U	64.5	27.2	mg/Kg	☼	12/27/21 14:22	12/28/21 05:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*65 - 130*	*12/27/21 14:22*	*12/28/21 05:47*	*1*
o-Terphenyl (Surr)	*112*		*65 - 130*	*12/27/21 14:22*	*12/28/21 05:47*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.66	J	12.8	4.54	mg/Kg	☼	12/21/21 19:01	12/22/21 15:17	1
Fluoride	3.97	J	6.42	1.28	mg/Kg	☼	12/21/21 19:01	12/22/21 15:17	1
Sulfate	59.5		12.8	5.54	mg/Kg	☼	12/21/21 19:01	12/22/21 15:17	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17532-1
Project/Site: Chevron - Jal Land Farm Soils

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(65-130)	(65-130)										
860-17532-1	Cell 17-Treatment-S-6-211216	98	107										
860-17532-2	Cell 18-Treatment-S-6-211216	98	107										
860-17532-3	Cell 19-Treatment-S-6-211216	103	113										
860-17532-4	Cell 20-Treatment-S-6-211216	101	112										
LCS 860-35671/2-A	Lab Control Sample	112	108										
LCSD 860-35671/3-A	Lab Control Sample Dup	105	102										
MB 860-35671/1-A	Method Blank	99	110										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17532-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-35671/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35606 **Prep Batch: 35671**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:22	12/28/21 02:46	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:22	12/28/21 02:46	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:22	12/28/21 02:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*65 - 130*	*12/27/21 14:22*	*12/28/21 02:46*	*1*
o-Terphenyl (Surr)	*110*		*65 - 130*	*12/27/21 14:22*	*12/28/21 02:46*	*1*

Lab Sample ID: LCS 860-35671/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35606 **Prep Batch: 35671**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	994	1031		mg/Kg		104	70 - 135
Diesel Range Organics (Over C10-C28)	994	1077		mg/Kg		108	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*112*		*65 - 130*
o-Terphenyl (Surr)	*108*		*65 - 130*

Lab Sample ID: LCSD 860-35671/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35606 **Prep Batch: 35671**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	994	1050		mg/Kg		106	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	994	1013		mg/Kg		102	70 - 135	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*65 - 130*
o-Terphenyl (Surr)	*102*		*65 - 130*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-35181/57-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35123 **Prep Batch: 35181**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		12/21/21 19:01	12/22/21 09:17	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		12/21/21 19:01	12/22/21 09:17	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		12/21/21 19:01	12/22/21 09:17	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-17532-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-35181/58-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35123 **Prep Batch: 35181**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	101.6		mg/Kg		102	80 - 120
Fluoride	100	104.3		mg/Kg		104	80 - 120
Sulfate	100	99.30		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 860-35181/59-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 35123 **Prep Batch: 35181**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	100.5		mg/Kg		100	80 - 120	1	20
Fluoride	100	103.9		mg/Kg		104	80 - 120	0	20
Sulfate	100	98.76		mg/Kg		99	80 - 120	1	20

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17532-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Analysis Batch: 35606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17532-1	Cell 17-Treatment-S-6-211216	Total/NA	Solid	8015B NM	35671
860-17532-2	Cell 18-Treatment-S-6-211216	Total/NA	Solid	8015B NM	35671
860-17532-3	Cell 19-Treatment-S-6-211216	Total/NA	Solid	8015B NM	35671
860-17532-4	Cell 20-Treatment-S-6-211216	Total/NA	Solid	8015B NM	35671
MB 860-35671/1-A	Method Blank	Total/NA	Solid	8015B NM	35671
LCS 860-35671/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35671
LCSD 860-35671/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35671

Prep Batch: 35671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17532-1	Cell 17-Treatment-S-6-211216	Total/NA	Solid	8015NM Prep	
860-17532-2	Cell 18-Treatment-S-6-211216	Total/NA	Solid	8015NM Prep	
860-17532-3	Cell 19-Treatment-S-6-211216	Total/NA	Solid	8015NM Prep	
860-17532-4	Cell 20-Treatment-S-6-211216	Total/NA	Solid	8015NM Prep	
MB 860-35671/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-35671/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-35671/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Analysis Batch: 35123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17532-1	Cell 17-Treatment-S-6-211216	Total/NA	Solid	9056A	35181
860-17532-2	Cell 18-Treatment-S-6-211216	Total/NA	Solid	9056A	35181
860-17532-3	Cell 19-Treatment-S-6-211216	Total/NA	Solid	9056A	35181
860-17532-4	Cell 20-Treatment-S-6-211216	Total/NA	Solid	9056A	35181
MB 860-35181/57-A	Method Blank	Total/NA	Solid	9056A	35181
LCS 860-35181/58-A	Lab Control Sample	Total/NA	Solid	9056A	35181
LCSD 860-35181/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	35181

Prep Batch: 35181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17532-1	Cell 17-Treatment-S-6-211216	Total/NA	Solid	300_Prep	
860-17532-2	Cell 18-Treatment-S-6-211216	Total/NA	Solid	300_Prep	
860-17532-3	Cell 19-Treatment-S-6-211216	Total/NA	Solid	300_Prep	
860-17532-4	Cell 20-Treatment-S-6-211216	Total/NA	Solid	300_Prep	
MB 860-35181/57-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-35181/58-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-35181/59-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 34907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17532-1	Cell 17-Treatment-S-6-211216	Total/NA	Solid	Moisture - 2540	
860-17532-2	Cell 18-Treatment-S-6-211216	Total/NA	Solid	Moisture - 2540	
860-17532-3	Cell 19-Treatment-S-6-211216	Total/NA	Solid	Moisture - 2540	
860-17532-4	Cell 20-Treatment-S-6-211216	Total/NA	Solid	Moisture - 2540	
MB 860-34907/1	Method Blank	Total/NA	Solid	Moisture - 2540	
860-17532-3 DU	Cell 19-Treatment-S-6-211216	Total/NA	Solid	Moisture - 2540	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-17532-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Treatment-S-6-211216 Lab Sample ID: 860-17532-1

Date Collected: 12/16/21 08:35 **Matrix: Solid**
Date Received: 12/17/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell 17-Treatment-S-6-211216 Lab Sample ID: 860-17532-1

Date Collected: 12/16/21 08:35 **Matrix: Solid**
Date Received: 12/17/21 10:25 **Percent Solids: 98.0**

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			9.97 g	10 mL	35671	12/27/21 14:22	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35606	12/28/21 04:53	T1S	XEN STF
Total/NA	Prep	300_Prep			4.91 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 14:38	ANP	XEN STF

Client Sample ID: Cell 18-Treatment-S-6-211216 Lab Sample ID: 860-17532-2

Date Collected: 12/16/21 09:30 **Matrix: Solid**
Date Received: 12/17/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell 18-Treatment-S-6-211216 Lab Sample ID: 860-17532-2

Date Collected: 12/16/21 09:30 **Matrix: Solid**
Date Received: 12/17/21 10:25 **Percent Solids: 97.6**

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			9.98 g	10 mL	35671	12/27/21 14:22	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35606	12/28/21 05:11	T1S	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 14:51	ANP	XEN STF

Client Sample ID: Cell 19-Treatment-S-6-211216 Lab Sample ID: 860-17532-3

Date Collected: 12/16/21 10:20 **Matrix: Solid**
Date Received: 12/17/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell 19-Treatment-S-6-211216 Lab Sample ID: 860-17532-3

Date Collected: 12/16/21 10:20 **Matrix: Solid**
Date Received: 12/17/21 10:25 **Percent Solids: 97.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	35671	12/27/21 14:22	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35606	12/28/21 05:29	T1S	XEN STF
Total/NA	Prep	300_Prep			5.02 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 15:04	ANP	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-17532-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 20-Treatment-S-6-211216 Lab Sample ID: 860-17532-4

Date Collected: 12/16/21 11:00 **Matrix: Solid**
Date Received: 12/17/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell 20-Treatment-S-6-211216 Lab Sample ID: 860-17532-4

Date Collected: 12/16/21 11:00 **Matrix: Solid**
Date Received: 12/17/21 10:25 **Percent Solids: 77.0**

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			10.06 g	10 mL	35671	12/27/21 14:22	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35606	12/28/21 05:47	T1S	XEN STF
Total/NA	Prep	300_Prep			5.06 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 15:17	ANP	XEN STF

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-17532-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Xenco, Stafford

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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	1306	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Method Summary

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

Job ID: 860-17532-1

Method	Method Description	Protocol	Laboratory
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
9056A	Anions, Ion Chromatography	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF

Protocol References:

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

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.

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 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: 860-17532-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-17532-1	Cell 17-Treatment-S-6-211216	Solid	12/16/21 08:35	12/17/21 10:25
860-17532-2	Cell 18-Treatment-S-6-211216	Solid	12/16/21 09:30	12/17/21 10:25
860-17532-3	Cell 19-Treatment-S-6-211216	Solid	12/16/21 10:20	12/17/21 10:25
860-17532-4	Cell 20-Treatment-S-6-211216	Solid	12/16/21 11:00	12/17/21 10:25

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

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

Chain of Custody Record

Temp: 2.4 IR ID:HOU-272
C/F: +0.0
Corrected Temp: 2.4

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Client Information	Sampler: Daniel McGee	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-5911-2069.1
Client Contact: Alison Schaffer	Phone: 432-999-2980	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S. Inc.	PWSID:			Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Standard			
State, Zip: CO 80129-2377	Compliance Project: Δ Yes Δ No			
Phone: 303-710-7537(Tel)	PO #: Purchase Order Requested			
Email: Alison.Schaffer@arcadis.com	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B BTEX	8015MOD_NM GRO/DRO/ORO	9056A_Chloride	moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	N	X	
Cell 17 - Treatment - S-6 - 211216	12-16-21	0835	C	Solid				X	X		3	
Cell 18 - Treatment - S-6 - 211216	12-16-21	0930	C	Solid				X	X		3	
Cell 19 - Treatment - S-6 - 211216	12-16-21	1020	C	Solid				X	X		3	
Cell 20 - Treatment - S-6 - 211216	12-16-21	1100	C	Solid				X	X		3	
				Solid								
				Solid								
				Solid								
		AM 12-16-21		Solid								
				Solid								
				Solid								
				Solid								

860-17532 Chain of Custody

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

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

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		12-16-21 1700	Arcadis			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					12/17/21 1025	EX
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Cooler Temperature(s) °C and Other Remarks:

Ver 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-17532-1

Login Number: 17532 **List Source: Eurofins Xenco, Stafford**
List Number: 1
Creator: Rubio, Yuri

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	2.4
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	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-17532-1

Login Number: 17532 **List Source: Eurofins Xenco, Stafford**
List Number: 2
Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
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	2.4
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.	N/A	Check done at department level as required.

Appendix B

January 2022 Laboratory Reports

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ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19619-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
2/28/2022 5:44:17 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 860-19619-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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
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 Semi VOA

Qualifier	Qualifier Description
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.

LCMS

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding 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.

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

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19619-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19619-1

Receipt
The samples were received on 1/25/2022 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C

GC/MS VOA
Method 8260B: The following analyte recovered outside control limits for the LCS associated with analytical batch 560-192640: Tetrachloroethene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been 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_AgChem: Internal standard (ISTD) response for Prometon for the following samples in analytical batch 400-565810 was outside acceptance criteria: Cell17-Square 37-S-3-4-220124 (860-19619-1), Cell17-Square 117-S-3-4-220124 (860-19619-2), (LCS 400-565562/2-A), (MB 400-565562/1-A), (860-19619-G-1-A MS) and (860-19619-G-1-B MSD). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

Method 8270D: The surrogate recovery for the laboratory control sample duplicate (LCSD) associated with preparation batch 860-39007 and analytical batch 860-39132 was outside the upper control limits.

Method 8270D: The surrogate recovery for the blank associated with preparation batch 860-39007 and analytical batch 860-39132 was outside the upper control limits.

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

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

PCBs
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 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell17-Square 37-S-3-4-220124 (860-19619-1), Cell17-Square 117-S-3-4-220124 (860-19619-2), (860-19619-F-1 MS) and (860-19619-F-1 MSD) in preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell17-Square 37-S-3-4-220124 (860-19619-1), Cell17-Square 117-S-3-4-220124 (860-19619-2), (860-19619-F-1 MS) and (860-19619-F-1 MSD). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell17-Square 37-S-3-4-220124 (860-19619-1), Cell17-Square 117-S-3-4-220124 (860-19619-2), (860-19619-F-1-B MS) and (860-19619-F-1-C MSD) in preparation batch 280-564725 and 280-565272 by 8330B_Sonc_10g for 8330B.

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19619-1 (Continued)

Laboratory: Eurofins Houston (Continued)

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

Method PFC: In preparation batch 280-565681, the following samples were re-prepared outside of preparation holding time due to the samples in the original batch being extracted but not filtered and sent on to the instrument analyst: Cell17-Square 37-S-3-4-220124 (860-19619-1) and Cell17-Square 117-S-3-4-220124 (860-19619-2). Method PFC_Leach/PFC.

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

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 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 AnalyteTh-234 Pa-234Th-234 U-238Pb-210 Po-210 Pb-210 Bi-210Cs-137 Ba-137mPb-212 Po-216Xe-131m Xe-131Sb-125 Te-125mAg-108m Ag-108Rh-106 Ru-106Pb-212 Th-228Pb-212 Ra-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. Cell17-Square 37-S-3-4-220124 (860-19619-1), Cell17-Square 117-S-3-4-220124 (860-19619-2), (LCS 160-549553/2-A), (MB 160-549553/1-A), (860-19990-D-2-B) and (860-19990-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 37-S-3-4-220124 Lab Sample ID: 860-19619-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13.4		10.2	3.60	mg/Kg	1		9056A	Total/NA
Nitrate as N	16.0		1.02	0.110	mg/Kg	1		9056A	Total/NA
Fluoride	4.35	J	5.08	1.02	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.630	J	1.02	0.0508	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	16.6		1.02	0.110	mg/Kg	1		9056A	Total/NA
Sulfate	76.7		10.2	4.39	mg/Kg	1		9056A	Total/NA
Perchlorate	0.162	J	0.469	0.0774	ug/Kg	1		6860	Total/NA
Arsenic	3.26	J	3.77	0.582	mg/Kg	10		6020A	Total/NA
Barium	153		3.77	0.327	mg/Kg	10		6020A	Total/NA
Beryllium	0.189	J	1.89	0.175	mg/Kg	10		6020A	Total/NA
Chromium	4.08		3.77	0.256	mg/Kg	10		6020A	Total/NA
Copper	1.69	J	3.77	0.246	mg/Kg	10		6020A	Total/NA
Iron	3710		18.9	2.21	mg/Kg	10		6020A	Total/NA
Manganese	36.8		1.89	0.240	mg/Kg	10		6020A	Total/NA
Lead	2.44		1.89	0.183	mg/Kg	10		6020A	Total/NA
Antimony	0.131	J	1.89	0.112	mg/Kg	10		6020A	Total/NA
Uranium	0.324	J	0.943	0.0564	mg/Kg	10		6020A	Total/NA
Zinc	10.6		3.77	0.418	mg/Kg	10		6020A	Total/NA
Mercury	0.00490	J	0.0200	0.00384	mg/Kg	1		7471A	Total/NA
pH	9.4	HF			SU	1		9045D	Soluble
Total Dissolved Solids	213		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell17-Square 117-S-3-4-220124 Lab Sample ID: 860-19619-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	5.31		1.01	0.110	mg/Kg	1		9056A	Total/NA
Fluoride	2.42	J	5.07	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.601	J	1.01	0.0507	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	5.91		1.01	0.110	mg/Kg	1		9056A	Total/NA
Sulfate	21.4		10.1	4.38	mg/Kg	1		9056A	Total/NA
Arsenic	3.55	J	3.57	0.551	mg/Kg	10		6020A	Total/NA
Barium	167		3.57	0.310	mg/Kg	10		6020A	Total/NA
Chromium	2.61	J	3.57	0.242	mg/Kg	10		6020A	Total/NA
Copper	1.38	J	3.57	0.233	mg/Kg	10		6020A	Total/NA
Iron	2330		17.9	2.09	mg/Kg	10		6020A	Total/NA
Manganese	17.2		1.79	0.227	mg/Kg	10		6020A	Total/NA
Lead	1.48	J	1.79	0.173	mg/Kg	10		6020A	Total/NA
Uranium	0.377	J	0.893	0.0534	mg/Kg	10		6020A	Total/NA
Zinc	7.37		3.57	0.395	mg/Kg	10		6020A	Total/NA
Mercury	0.00645	J	0.0182	0.00349	mg/Kg	1		7471A	Total/NA
pH	9.4	HF			SU	1		9045D	Soluble
Total Dissolved Solids	158		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 37-S-3-4-220124 **Lab Sample ID: 860-19619-1**
Date Collected: 01/24/22 10:34 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.716	U	4.90	0.716	ug/Kg			01/27/22 18:31	1
Chloromethane	1.18	U	4.90	1.18	ug/Kg			01/27/22 18:31	1
Vinyl chloride	0.588	U	4.90	0.588	ug/Kg			01/27/22 18:31	1
Bromomethane	1.08	U	4.90	1.08	ug/Kg			01/27/22 18:31	1
Trichlorofluoromethane	0.490	U	4.90	0.490	ug/Kg			01/27/22 18:31	1
Acrolein	8.43	U	49.0	8.43	ug/Kg			01/27/22 18:31	1
1,1-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			01/27/22 18:31	1
trans-1,2-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			01/27/22 18:31	1
Methyl tert-butyl ether	0.598	U	4.90	0.598	ug/Kg			01/27/22 18:31	1
1,3-Dichlorobenzene	0.304	U	4.90	0.304	ug/Kg			01/27/22 18:31	1
Methylene Chloride	4.90	U	24.5	4.90	ug/Kg			01/27/22 18:31	1
Acrylonitrile	3.53	U	49.0	3.53	ug/Kg			01/27/22 18:31	1
cis-1,2-Dichloroethene	0.559	U	4.90	0.559	ug/Kg			01/27/22 18:31	1
Carbon tetrachloride	0.500	U	4.90	0.500	ug/Kg			01/27/22 18:31	1
Benzene	0.618	U	4.90	0.618	ug/Kg			01/27/22 18:31	1
1,2-Dichloroethane	0.510	U	4.90	0.510	ug/Kg			01/27/22 18:31	1
Trichloroethene	0.275	U	4.90	0.275	ug/Kg			01/27/22 18:31	1
1,1,1-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			01/27/22 18:31	1
1,1-Dichloroethane	0.578	U	4.90	0.578	ug/Kg			01/27/22 18:31	1
1,2-Dichloropropane	0.490	U	4.90	0.490	ug/Kg			01/27/22 18:31	1
1,4-Dioxane	18.6	U	98.0	18.6	ug/Kg			01/27/22 18:31	1
Chloroform	0.853	U	4.90	0.853	ug/Kg			01/27/22 18:31	1
Bromodichloromethane	0.196	U	4.90	0.196	ug/Kg			01/27/22 18:31	1
1,1-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			01/27/22 18:31	1
cis-1,3-Dichloropropene	0.441	U	4.90	0.441	ug/Kg			01/27/22 18:31	1
Toluene	0.882	U	4.90	0.882	ug/Kg			01/27/22 18:31	1
trans-1,3-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			01/27/22 18:31	1
1,1,2-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			01/27/22 18:31	1
Tetrachloroethene	0.725	U *	4.90	0.725	ug/Kg			01/27/22 18:31	1
1,3-Dichloropropene, Total	0.510	U	4.90	0.510	ug/Kg			01/27/22 18:31	1
1,2-Dibromoethane	0.294	U	4.90	0.294	ug/Kg			01/27/22 18:31	1
Monochlorobenzene	0.294	U	4.90	0.294	ug/Kg			01/27/22 18:31	1
Ethylbenzene	0.441	U	4.90	0.441	ug/Kg			01/27/22 18:31	1
Xylenes, Total	0.490	U	9.80	0.490	ug/Kg			01/27/22 18:31	1
Styrene	0.294	U	4.90	0.294	ug/Kg			01/27/22 18:31	1
Tribromomethane	0.500	U	4.90	0.500	ug/Kg			01/27/22 18:31	1
1,1,2,2-Tetrachloroethane	0.373	U	4.90	0.373	ug/Kg			01/27/22 18:31	1
1,4-Dichlorobenzene	0.314	U	4.90	0.314	ug/Kg			01/27/22 18:31	1
1,2-Dichlorobenzene	0.245	U	4.90	0.245	ug/Kg			01/27/22 18:31	1
1,2,4-Trichlorobenzene	0.951	U	4.90	0.951	ug/Kg			01/27/22 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*65 - 152*		*01/27/22 18:31*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 18:31*	*1*
Dibromofluoromethane (Surr)	*92*		*50 - 136*		*01/27/22 18:31*	*1*
4-Bromofluorobenzene (Surr)	*115*		*61 - 142*		*01/27/22 18:31*	*1*

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00253	U	0.00505	0.00253	mg/Kg		02/01/22 11:08	02/01/22 17:37	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 37-S-3-4-220124 **Lab Sample ID: 860-19619-1**
Date Collected: 01/24/22 10:34 **Matrix: Solid**
Date Received: 01/25/22 09:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*	*02/01/22 11:08*	*02/01/22 17:37*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.7	U	64.3	11.7	ug/Kg		02/04/22 15:17	02/08/22 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*83*	*	*30 - 164*	*02/04/22 15:17*	*02/08/22 16:24*	*1*

Method: 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		01/27/22 07:14	01/27/22 23:20	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/27/22 23:20	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 37-S-3-4-220124 **Lab Sample ID: 860-19619-1**
Date Collected: 01/24/22 10:34 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/27/22 07:14	01/27/22 23:20	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/27/22 07:14	01/27/22 23:20	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*	*01/27/22 07:14*	*01/27/22 23:20*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*30 - 115*	*01/27/22 07:14*	*01/27/22 23:20*	*1*
2-Fluorophenol	*78*		*25 - 121*	*01/27/22 07:14*	*01/27/22 23:20*	*1*
2,4,6-Tribromophenol	*101*		*19 - 122*	*01/27/22 07:14*	*01/27/22 23:20*	*1*
Nitrobenzene-d5	*82*		*23 - 129*	*01/27/22 07:14*	*01/27/22 23:20*	*1*
Phenol-d5 (Surr)	*81*		*24 - 113*	*01/27/22 07:14*	*01/27/22 23:20*	*1*
p-Terphenyl-d14 (Surr)	*102*		*18 - 137*	*01/27/22 07:14*	*01/27/22 23:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.8	U	49.3	20.8	mg/Kg		01/28/22 11:36	01/29/22 02:13	1
Diesel Range Organics (Over C10-C28)	20.8	U	49.3	20.8	mg/Kg		01/28/22 11:36	01/29/22 02:13	1
OII Range Organics (Over C28-C36)	20.8	U	49.3	20.8	mg/Kg		01/28/22 11:36	01/29/22 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*65 - 130*	*01/28/22 11:36*	*01/29/22 02:13*	*1*
o-Terphenyl (Surr)	*85*		*65 - 130*	*01/28/22 11:36*	*01/29/22 02:13*	*1*

Method: 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		01/26/22 08:34	01/26/22 16:10	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Hexachlorocyclohexane, beta-	0.473	U	0.833	0.473	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Hexachlorocyclohexane, gamma-	0.438	U	0.833	0.438	ug/Kg		01/26/22 08:34	01/26/22 16:10	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 37-S-3-4-220124 **Lab Sample ID: 860-19619-1**
Date Collected: 01/24/22 10:34 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/26/22 08:34	01/26/22 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*35 - 135*	*01/26/22 08:34*	*01/26/22 16:10*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*25 - 143*	*01/26/22 08:34*	*01/26/22 16:10*	*1*

Method: 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		01/26/22 08:34	01/26/22 15:12	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:12	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:12	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:12	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:12	1
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		01/26/22 08:34	01/26/22 15:12	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		01/26/22 08:34	01/26/22 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*35 - 140*	*01/26/22 08:34*	*01/26/22 15:12*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*37 - 142*	*01/26/22 08:34*	*01/26/22 15:12*	*1*

Method: 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	0.0214	U	0.0943	0.0214	mg/Kg		02/05/22 11:25	02/10/22 06:53	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0406	U	0.189	0.0406	mg/Kg		02/05/22 11:25	02/10/22 06:53	1
2,4,6-Trinitrotoluene	0.0290	U	0.0943	0.0290	mg/Kg		02/05/22 11:25	02/10/22 06:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*108*		*83 - 122*	*02/05/22 11:25*	*02/10/22 06:53*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.4**		10.2	3.60	mg/Kg		01/25/22 11:00	01/25/22 17:37	1
Nitrate as N	**16.0**		1.02	0.110	mg/Kg		01/25/22 11:00	01/25/22 17:37	1
Fluoride	**4.35**	**J**	5.08	1.02	mg/Kg		01/25/22 11:00	01/25/22 17:37	1
Nitrite as N	**0.630**	**J**	1.02	0.0508	mg/Kg		01/25/22 11:00	01/25/22 17:37	1
Nitrate Nitrite as N	**16.6**		1.02	0.110	mg/Kg		01/25/22 11:00	01/25/22 17:37	1
Sulfate	**76.7**		10.2	4.39	mg/Kg		01/25/22 11:00	01/25/22 17:37	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.162**	**J**	0.469	0.0774	ug/Kg		02/03/22 17:49	02/08/22 18:17	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.209	U H	0.729	0.209	ug/Kg		02/10/22 11:04	02/16/22 11:39	1
Perfluorohexanesulfonic acid (PFHxS)	0.255	U H	0.729	0.255	ug/Kg		02/10/22 11:04	02/16/22 11:39	1
Perfluorooctanesulfonic acid (PFOS)	0.128	U H	0.729	0.128	ug/Kg		02/10/22 11:04	02/16/22 11:39	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 37-S-3-4-220124 Lab Sample ID: 860-19619-1

Date Collected: 01/24/22 10:34 **Matrix: Solid**
Date Received: 01/25/22 09:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	02/10/22 11:04	02/16/22 11:39	1
13C8 PFOS	106		70 - 130	02/10/22 11:04	02/16/22 11:39	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.150	U	1.89	0.150	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Arsenic	**3.26**	**J**	3.77	0.582	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Barium	**153**		3.77	0.327	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Beryllium	**0.189**	**J**	1.89	0.175	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Cadmium	0.109	U	1.89	0.109	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Chromium	**4.08**		3.77	0.256	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Copper	**1.69**	**J**	3.77	0.246	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Iron	**3710**		18.9	2.21	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Manganese	**36.8**		1.89	0.240	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Lead	**2.44**		1.89	0.183	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Antimony	**0.131**	**J**	1.89	0.112	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Selenium	0.468	U	1.89	0.468	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Thallium	0.225	U	1.89	0.225	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Uranium	**0.324**	**J**	0.943	0.0564	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Zinc	**10.6**		3.77	0.418	mg/Kg		01/30/22 14:01	02/01/22 21:19	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00490**	**J**	0.0200	0.00384	mg/Kg		01/28/22 08:00	01/28/22 11:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.4	U	59.3	29.4	ug/Kg		02/07/22 14:39	02/07/22 16:29	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 12:55	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.4**	**HF**			SU			02/04/22 14:13	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**213**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	**1.30**		0.230	0.278	1.00	0.150	pCi/g	02/07/22 10:12	02/28/22 09:47	1
Radium-228	0.0739	U	0.181	0.181		0.491	pCi/g	02/07/22 10:12	02/28/22 09:47	1
Combined Radium 226 + 228	**1.38**		0.293	0.332		0.491	pCi/g	02/07/22 10:12	02/28/22 09:47	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 117-S-3-4-220124
Lab Sample ID: 860-19619-2
Date Collected: 01/24/22 11:15
Matrix: Solid
Date Received: 01/25/22 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.659	U	4.51	0.659	ug/Kg			01/27/22 18:57	1
Chloromethane	1.08	U	4.51	1.08	ug/Kg			01/27/22 18:57	1
Vinyl chloride	0.542	U	4.51	0.542	ug/Kg			01/27/22 18:57	1
Bromomethane	0.993	U	4.51	0.993	ug/Kg			01/27/22 18:57	1
Trichlorofluoromethane	0.451	U	4.51	0.451	ug/Kg			01/27/22 18:57	1
Acrolein	7.76	U	45.1	7.76	ug/Kg			01/27/22 18:57	1
1,1-Dichloroethene	0.451	U	4.51	0.451	ug/Kg			01/27/22 18:57	1
trans-1,2-Dichloroethene	0.451	U	4.51	0.451	ug/Kg			01/27/22 18:57	1
Methyl tert-butyl ether	0.551	U	4.51	0.551	ug/Kg			01/27/22 18:57	1
1,3-Dichlorobenzene	0.280	U	4.51	0.280	ug/Kg			01/27/22 18:57	1
Methylene Chloride	4.51	U	22.6	4.51	ug/Kg			01/27/22 18:57	1
Acrylonitrile	3.25	U	45.1	3.25	ug/Kg			01/27/22 18:57	1
cis-1,2-Dichloroethene	0.514	U	4.51	0.514	ug/Kg			01/27/22 18:57	1
Carbon tetrachloride	0.460	U	4.51	0.460	ug/Kg			01/27/22 18:57	1
Benzene	0.569	U	4.51	0.569	ug/Kg			01/27/22 18:57	1
1,2-Dichloroethane	0.469	U	4.51	0.469	ug/Kg			01/27/22 18:57	1
Trichloroethene	0.253	U	4.51	0.253	ug/Kg			01/27/22 18:57	1
1,1,1-Trichloroethane	0.451	U	4.51	0.451	ug/Kg			01/27/22 18:57	1
1,1-Dichloroethane	0.532	U	4.51	0.532	ug/Kg			01/27/22 18:57	1
1,2-Dichloropropane	0.451	U	4.51	0.451	ug/Kg			01/27/22 18:57	1
1,4-Dioxane	17.1	U	90.3	17.1	ug/Kg			01/27/22 18:57	1
Chloroform	0.785	U	4.51	0.785	ug/Kg			01/27/22 18:57	1
Bromodichloromethane	0.181	U	4.51	0.181	ug/Kg			01/27/22 18:57	1
1,1-Dichloropropene	0.469	U	4.51	0.469	ug/Kg			01/27/22 18:57	1
cis-1,3-Dichloropropene	0.406	U	4.51	0.406	ug/Kg			01/27/22 18:57	1
Toluene	0.812	U	4.51	0.812	ug/Kg			01/27/22 18:57	1
trans-1,3-Dichloropropene	0.469	U	4.51	0.469	ug/Kg			01/27/22 18:57	1
1,1,2-Trichloroethane	0.451	U	4.51	0.451	ug/Kg			01/27/22 18:57	1
Tetrachloroethene	0.668	U *	4.51	0.668	ug/Kg			01/27/22 18:57	1
1,3-Dichloropropene, Total	0.469	U	4.51	0.469	ug/Kg			01/27/22 18:57	1
1,2-Dibromoethane	0.271	U	4.51	0.271	ug/Kg			01/27/22 18:57	1
Monochlorobenzene	0.271	U	4.51	0.271	ug/Kg			01/27/22 18:57	1
Ethylbenzene	0.406	U	4.51	0.406	ug/Kg			01/27/22 18:57	1
Xylenes, Total	0.451	U	9.03	0.451	ug/Kg			01/27/22 18:57	1
Styrene	0.271	U	4.51	0.271	ug/Kg			01/27/22 18:57	1
Tribromomethane	0.460	U	4.51	0.460	ug/Kg			01/27/22 18:57	1
1,1,2,2-Tetrachloroethane	0.343	U	4.51	0.343	ug/Kg			01/27/22 18:57	1
1,4-Dichlorobenzene	0.289	U	4.51	0.289	ug/Kg			01/27/22 18:57	1
1,2-Dichlorobenzene	0.226	U	4.51	0.226	ug/Kg			01/27/22 18:57	1
1,2,4-Trichlorobenzene	0.875	U	4.51	0.875	ug/Kg			01/27/22 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*65 - 152*		*01/27/22 18:57*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 18:57*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 136*		*01/27/22 18:57*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*01/27/22 18:57*	*1*

Method: 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	0.00499	0.00250	mg/Kg		02/01/22 11:08	02/03/22 01:09	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 117-S-3-4-220124
Lab Sample ID: 860-19619-2
Date Collected: 01/24/22 11:15
Matrix: Solid
Date Received: 01/25/22 09:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*108*		*63 - 144*	*02/01/22 11:08*	*02/03/22 01:09*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.9	U	65.3	11.9	ug/Kg		02/04/22 15:17	02/08/22 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*84*	*	*30 - 164*	*02/04/22 15:17*	*02/08/22 16:50*	*1*

Method: 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		01/27/22 07:14	01/27/22 23:40	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/27/22 23:40	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 117-S-3-4-220124 **Lab Sample ID: 860-19619-2**
Date Collected: 01/24/22 11:15 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/27/22 07:14	01/27/22 23:40	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/27/22 07:14	01/27/22 23:40	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*	*01/27/22 07:14*	*01/27/22 23:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*30 - 115*	*01/27/22 07:14*	*01/27/22 23:40*	*1*
2-Fluorophenol	*88*		*25 - 121*	*01/27/22 07:14*	*01/27/22 23:40*	*1*
2,4,6-Tribromophenol	*107*		*19 - 122*	*01/27/22 07:14*	*01/27/22 23:40*	*1*
Nitrobenzene-d5	*95*		*23 - 129*	*01/27/22 07:14*	*01/27/22 23:40*	*1*
Phenol-d5 (Surr)	*90*		*24 - 113*	*01/27/22 07:14*	*01/27/22 23:40*	*1*
p-Terphenyl-d14 (Surr)	*114*		*18 - 137*	*01/27/22 07:14*	*01/27/22 23:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 03:12	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 03:12	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*65 - 130*	*01/28/22 11:36*	*01/29/22 03:12*	*1*
o-Terphenyl (Surr)	*83*		*65 - 130*	*01/28/22 11:36*	*01/29/22 03:12*	*1*

Method: 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		01/26/22 08:34	01/26/22 16:26	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/26/22 08:34	01/26/22 16:26	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 117-S-3-4-220124 **Lab Sample ID: 860-19619-2**
Date Collected: 01/24/22 11:15 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/26/22 08:34	01/26/22 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*35 - 135*	*01/26/22 08:34*	*01/26/22 16:26*	*1*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*	*01/26/22 08:34*	*01/26/22 16:26*	*1*

Method: 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		01/26/22 08:34	01/26/22 15:22	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:22	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:22	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:22	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:22	1
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		01/26/22 08:34	01/26/22 15:22	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		01/26/22 08:34	01/26/22 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*35 - 140*	*01/26/22 08:34*	*01/26/22 15:22*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*37 - 142*	*01/26/22 08:34*	*01/26/22 15:22*	*1*

Method: 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	0.0225	U	0.0993	0.0225	mg/Kg		02/05/22 11:25	02/10/22 08:02	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0427	U	0.199	0.0427	mg/Kg		02/05/22 11:25	02/10/22 08:02	1
2,4,6-Trinitrotoluene	0.0305	U	0.0993	0.0305	mg/Kg		02/05/22 11:25	02/10/22 08:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*104*		*83 - 122*	*02/05/22 11:25*	*02/10/22 08:02*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.59	U	10.1	3.59	mg/Kg		01/25/22 11:00	01/25/22 17:49	1
Nitrate as N	**5.31**		1.01	0.110	mg/Kg		01/25/22 11:00	01/25/22 17:49	1
Fluoride	**2.42**	**J**	5.07	1.01	mg/Kg		01/25/22 11:00	01/25/22 17:49	1
Nitrite as N	**0.601**	**J**	1.01	0.0507	mg/Kg		01/25/22 11:00	01/25/22 17:49	1
Nitrate Nitrite as N	**5.91**		1.01	0.110	mg/Kg		01/25/22 11:00	01/25/22 17:49	1
Sulfate	**21.4**		10.1	4.38	mg/Kg		01/25/22 11:00	01/25/22 17:49	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:22	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.212	U H	0.736	0.212	ug/Kg		02/10/22 11:04	02/16/22 11:47	1
Perfluorohexanesulfonic acid (PFHxS)	0.258	U H	0.736	0.258	ug/Kg		02/10/22 11:04	02/16/22 11:47	1
Perfluorooctanesulfonic acid (PFOS)	0.129	U H	0.736	0.129	ug/Kg		02/10/22 11:04	02/16/22 11:47	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 117-S-3-4-220124 Lab Sample ID: 860-19619-2

Date Collected: 01/24/22 11:15 **Matrix: Solid**
Date Received: 01/25/22 09:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*102*		*57 - 153*	*02/10/22 11:04*	*02/16/22 11:47*	*1*
13C8 PFOS	*105*		*70 - 130*	*02/10/22 11:04*	*02/16/22 11:47*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.142	U	1.79	0.142	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Arsenic	**3.55**	**J**	3.57	0.551	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Barium	**167**		3.57	0.310	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Beryllium	0.165	U	1.79	0.165	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Cadmium	0.104	U	1.79	0.104	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Chromium	**2.61**	**J**	3.57	0.242	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Copper	**1.38**	**J**	3.57	0.233	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Iron	**2330**		17.9	2.09	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Manganese	**17.2**		1.79	0.227	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Lead	**1.48**	**J**	1.79	0.173	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Antimony	0.106	U	1.79	0.106	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Selenium	0.443	U	1.79	0.443	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Thallium	0.213	U	1.79	0.213	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Uranium	**0.377**	**J**	0.893	0.0534	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Zinc	**7.37**		3.57	0.395	mg/Kg		01/30/22 14:01	02/01/22 21:22	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00645**	**J**	0.0182	0.00349	mg/Kg		01/28/22 08:00	01/28/22 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.7	U	60.0	29.7	ug/Kg		02/07/22 14:39	02/07/22 16:31	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:03	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.4**	**HF**			SU			02/04/22 14:13	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**158**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	**1.78**		0.207	0.277	1.00	0.0967	pCi/g	02/07/22 10:12	02/28/22 10:20	1
Radium-228	0.0677	U	0.203	0.203		0.311	pCi/g	02/07/22 10:12	02/28/22 10:20	1
Combined Radium 226 + 228	**1.85**		0.290	0.343		0.311	pCi/g	02/07/22 10:12	02/28/22 10:20	1

Surrogate Summary

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

Job ID: 860-19619-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(65-152)	(65-139)	(50-136)	(61-142)
860-19619-1	Cell17-Square 37-S-3-4-220124	93	95	92	115
860-19619-2	Cell17-Square 117-S-3-4-220124	96	95	94	111
LCS 560-192640/3	Lab Control Sample	94	94	96	116
LCSD 560-192640/4	Lab Control Sample Dup	94	95	96	117
MB 560-192640/7	Method Blank	92	95	93	111

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCA
Lab Sample ID	Client Sample ID	(63-144)
860-19619-1	Cell17-Square 37-S-3-4-220124	96
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	96
860-19619-2	Cell17-Square 117-S-3-4-220124	108
860-19619-2 MS	Cell17-Square 117-S-3-4-220124	113
LCS 860-39864/11	Lab Control Sample	90
LCS 860-40051/11	Lab Control Sample	101
LCSD 860-39864/12	Lab Control Sample Dup	92
LCSD 860-40051/12	Lab Control Sample Dup	102
MB 860-39864/16	Method Blank	91
MB 860-40051/16	Method Blank	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19619-1	Cell17-Square 37-S-3-4-220124	83 *
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	78 *
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	79
860-19619-2	Cell17-Square 117-S-3-4-220124	84 *
LCS 400-565562/2-A	Lab Control Sample	95 *
MB 400-565562/1-A	Method Blank	80

Surrogate Legend

TPP = Triphenylphosphate

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(30-115)	(25-121)	(19-122)	(23-129)	(24-113)	(18-137)
860-19619-1	Cell17-Square 37-S-3-4-220124	88	78	101	82	81	102
860-19619-2	Cell17-Square 117-S-3-4-220124	100	88	107	95	90	114
LCS 860-39007/2-A	Lab Control Sample	103	107	118	102	111	109
LCSD 860-39007/3-A	Lab Control Sample Dup	111	110	123 X	110	114 X	116
MB 860-39007/1-A	Method Blank	120 X	112	122	125	113	135

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(65-130)	(65-130)
860-19619-1	Cell17-Square 37-S-3-4-220124	99	85
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	93	86
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	95	87
860-19619-2	Cell17-Square 117-S-3-4-220124	97	83
LCS 860-39365/2-A	Lab Control Sample	98	89
LCSD 860-39365/3-A	Lab Control Sample Dup	96	87
MB 860-39365/1-A	Method Blank	96	83

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(35-135)	(25-143)
860-19619-1	Cell17-Square 37-S-3-4-220124	83	102
860-19619-2	Cell17-Square 117-S-3-4-220124	86	107
LCS 860-38890/2-A	Lab Control Sample	88	107
LCSD 860-38890/3-A	Lab Control Sample Dup	86	107
MB 860-38890/1-A	Method Blank	95	115

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	DCB1								
Lab Sample ID	Client Sample ID	(35-140)	(37-142)								
860-19619-1	Cell17-Square 37-S-3-4-220124	68	92								
860-19619-2	Cell17-Square 117-S-3-4-220124	70	92								
LCS 860-38890/4-A	Lab Control Sample	72	86								
LCSD 860-38890/5-A	Lab Control Sample Dup	67	87								
MB 860-38890/1-A	Method Blank	80	91								

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)									
		12DNB1									
Lab Sample ID	Client Sample ID	(83-122)									
860-19619-1	Cell17-Square 37-S-3-4-220124	108									
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	99									
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	104									
860-19619-2	Cell17-Square 117-S-3-4-220124	104									
LCS 280-565272/2-A	Lab Control Sample	99									
MB 280-565272/1-A	Method Blank	105									

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		C8PFOA	C8PFOS								
Lab Sample ID	Client Sample ID	(57-153)	(70-130)								
860-19619-1	Cell17-Square 37-S-3-4-220124	103	106								
860-19619-2	Cell17-Square 117-S-3-4-220124	102	105								
DLCK 280-556129/13	Lab Control Sample	98	105								
LCS 280-565681/2-A	Lab Control Sample	104	108								
MB 280-565681/1-A	Method Blank	104	107								

Surrogate Legend

C8PFOA = 13C8 PFOA

C8PFOS = 13C8 PFOS

QC Sample Results

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

Job ID: 860-19619-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192640/7
Matrix: Solid
Analysis Batch: 192640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/27/22 17:15	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/27/22 17:15	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/27/22 17:15	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/27/22 17:15	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/27/22 17:15	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/27/22 17:15	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/27/22 17:15	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/27/22 17:15	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/27/22 17:15	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/27/22 17:15	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/27/22 17:15	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/27/22 17:15	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/27/22 17:15	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/27/22 17:15	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/27/22 17:15	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/27/22 17:15	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/27/22 17:15	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/27/22 17:15	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/27/22 17:15	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/27/22 17:15	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/27/22 17:15	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/27/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 152*		*01/27/22 17:15*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 17:15*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 17:15*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*01/27/22 17:15*	*1*

QC Sample Results

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

Job ID: 860-19619-1

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

Lab Sample ID: LCS 560-192640/3
Matrix: Solid
Analysis Batch: 192640

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	35.80		ug/Kg		89	13 - 130
Chloromethane	40.0	29.10		ug/Kg		73	61 - 137
Vinyl chloride	40.0	34.22		ug/Kg		86	65 - 139
Bromomethane	40.0	32.15		ug/Kg		80	57 - 155
Trichlorofluoromethane	40.0	32.83		ug/Kg		82	68 - 146
Acrolein	395	383.2		ug/Kg		97	20 - 150
1,1-Dichloroethene	40.0	35.68		ug/Kg		89	70 - 130
trans-1,2-Dichloroethene	40.0	35.03		ug/Kg		88	70 - 132
Methyl tert-butyl ether	40.0	37.20		ug/Kg		93	70 - 130
1,3-Dichlorobenzene	40.0	35.27		ug/Kg		88	70 - 130
Methylene Chloride	40.0	33.56		ug/Kg		84	61 - 150
Acrylonitrile	400	374.6		ug/Kg		94	66 - 137
cis-1,2-Dichloroethene	40.0	36.33		ug/Kg		91	70 - 130
Carbon tetrachloride	40.0	31.85		ug/Kg		80	70 - 136
Benzene	40.0	35.70		ug/Kg		89	70 - 131
1,2-Dichloroethane	40.0	31.23		ug/Kg		78	70 - 130
Trichloroethene	40.0	34.26		ug/Kg		86	70 - 130
1,1,1-Trichloroethane	40.0	31.86		ug/Kg		80	70 - 132
1,1-Dichloroethane	40.0	34.37		ug/Kg		86	70 - 130
1,2-Dichloropropane	40.0	36.83		ug/Kg		92	70 - 130
1,4-Dioxane	800	833.9		ug/Kg		104	10 - 150
Chloroform	40.0	32.99		ug/Kg		82	70 - 130
Bromodichloromethane	40.0	34.83		ug/Kg		87	70 - 130
1,1-Dichloropropene	40.0	37.02		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	32.77		ug/Kg		82	70 - 130
Toluene	40.0	32.19		ug/Kg		80	70 - 130
trans-1,3-Dichloropropene	40.0	35.13		ug/Kg		88	70 - 131
1,1,2-Trichloroethane	40.0	33.40		ug/Kg		84	70 - 130
Tetrachloroethene	40.0	27.27	*	ug/Kg		68	70 - 130
1,3-Dichloropropene, Total	80.0	67.90		ug/Kg		85	
1,2-Dibromoethane	40.0	32.91		ug/Kg		82	70 - 130
Monochlorobenzene	40.0	31.49		ug/Kg		79	70 - 130
Ethylbenzene	40.0	35.33		ug/Kg		88	70 - 130
Xylenes, Total	80.0	73.91		ug/Kg		92	70 - 130
Styrene	40.0	36.75		ug/Kg		92	70 - 130
Tribromomethane	40.0	29.36		ug/Kg		73	59 - 137
1,1,2,2-Tetrachloroethane	40.0	38.53		ug/Kg		96	70 - 130
1,4-Dichlorobenzene	40.0	33.92		ug/Kg		85	70 - 130
1,2-Dichlorobenzene	40.0	34.72		ug/Kg		87	70 - 130
1,2,4-Trichlorobenzene	40.0	36.85		ug/Kg		92	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*94*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 560-192640/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192640

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			40.0	40.95		ug/Kg		102	13 - 130	13	30.0
Chloromethane			40.0	32.52		ug/Kg		81	61 - 137	11	30.0
Vinyl chloride			40.0	37.63		ug/Kg		94	65 - 139	9	30.0
Bromomethane			40.0	36.48		ug/Kg		91	57 - 155	13	30.0
Trichlorofluoromethane			40.0	37.52		ug/Kg		94	68 - 146	13	30.0
Acrolein			395	450.0		ug/Kg		114	20 - 150	16	30.0
1,1-Dichloroethene			40.0	40.79		ug/Kg		102	70 - 130	13	30.0
trans-1,2-Dichloroethene			40.0	40.86		ug/Kg		102	70 - 132	15	30.0
Methyl tert-butyl ether			40.0	44.27		ug/Kg		111	70 - 130	17	30.0
1,3-Dichlorobenzene			40.0	39.74		ug/Kg		99	70 - 130	12	30.0
Methylene Chloride			40.0	38.56		ug/Kg		96	61 - 150	14	30.0
Acrylonitrile			400	428.6		ug/Kg		107	66 - 137	13	30.0
cis-1,2-Dichloroethene			40.0	42.79		ug/Kg		107	70 - 130	16	30.0
Carbon tetrachloride			40.0	38.15		ug/Kg		95	70 - 136	18	30.0
Benzene			40.0	41.87		ug/Kg		105	70 - 131	16	30.0
1,2-Dichloroethane			40.0	36.23		ug/Kg		91	70 - 130	15	30.0
Trichloroethene			40.0	39.85		ug/Kg		100	70 - 130	15	30.0
1,1,1-Trichloroethane			40.0	38.48		ug/Kg		96	70 - 132	19	30.0
1,1-Dichloroethane			40.0	40.81		ug/Kg		102	70 - 130	17	30.0
1,2-Dichloropropane			40.0	41.90		ug/Kg		105	70 - 130	13	30.0
1,4-Dioxane			800	907.5		ug/Kg		113	10 - 150	8	30.0
Chloroform			40.0	38.61		ug/Kg		97	70 - 130	16	30.0
Bromodichloromethane			40.0	41.06		ug/Kg		103	70 - 130	16	30.0
1,1-Dichloropropene			40.0	43.32		ug/Kg		108	70 - 130	16	30.0
cis-1,3-Dichloropropene			40.0	38.69		ug/Kg		97	70 - 130	17	30.0
Toluene			40.0	37.88		ug/Kg		95	70 - 130	16	30.0
trans-1,3-Dichloropropene			40.0	40.99		ug/Kg		102	70 - 131	15	30.0
1,1,2-Trichloroethane			40.0	38.17		ug/Kg		95	70 - 130	13	30.0
Tetrachloroethene			40.0	33.02		ug/Kg		83	70 - 130	19	30.0
1,3-Dichloropropene, Total			80.0	79.68		ug/Kg		100		16	30
1,2-Dibromoethane			40.0	37.63		ug/Kg		94	70 - 130	13	30.0
Monochlorobenzene			40.0	36.20		ug/Kg		90	70 - 130	14	30.0
Ethylbenzene			40.0	40.69		ug/Kg		102	70 - 130	14	30.0
Xylenes, Total			80.0	85.81		ug/Kg		107	70 - 130	15	30.0
Styrene			40.0	41.41		ug/Kg		104	70 - 130	12	30.0
Tribromomethane			40.0	33.15		ug/Kg		83	59 - 137	12	30.0
1,1,2,2-Tetrachloroethane			40.0	44.69		ug/Kg		112	70 - 130	15	30.0
1,4-Dichlorobenzene			40.0	38.17		ug/Kg		95	70 - 130	12	30.0
1,2-Dichlorobenzene			40.0	40.46		ug/Kg		101	70 - 130	15	30.0
1,2,4-Trichlorobenzene			40.0	42.88		ug/Kg		107	68 - 140	15	30.0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*117*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 860-19619-1 MS **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39864 **Prep Batch: 39768**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane (P-Dioxane)	0.00253	U	0.0502	0.05280		mg/Kg		105	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*

Lab Sample ID: 860-19619-2 MS **Client Sample ID: Cell17-Square 117-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40051 **Prep Batch: 39768**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane (P-Dioxane)	0.00250	U	0.0498	0.04917		mg/Kg		99	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*63 - 144*

Lab Sample ID: MB 860-39864/16 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39864

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			02/01/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*		*02/01/22 17:15*	*1*

Lab Sample ID: LCS 860-39864/11 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane (P-Dioxane)			0.0500	0.04692		mg/Kg		94	65 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*

Lab Sample ID: LCSD 860-39864/12 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.04791		mg/Kg		96	65 - 135	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 144*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-40051/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

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			02/03/22 00:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*02/03/22 00:47*	*1*

Lab Sample ID: LCS 860-40051/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.05356		mg/Kg		107	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*

Lab Sample ID: LCSD 860-40051/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.05670		mg/Kg		113	65 - 135	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-565562/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565810 — **Prep Batch: 565562**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/04/22 15:17	02/08/22 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*80*		*30 - 164*	*02/04/22 15:17*	*02/08/22 14:41*	*1*

Lab Sample ID: LCS 400-565562/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565810 — **Prep Batch: 565562**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	272.6		ug/Kg		82	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*95*	*	*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Pesticides by GC/MS (Continued)

Lab Sample ID: 860-19619-1 MS **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565810 **Prep Batch: 565562**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Prometon	11.7	U	330	249.2		ug/Kg		76	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Triphenylphosphate	*78*	*	*30 - 164*

Lab Sample ID: 860-19619-1 MSD **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565810 **Prep Batch: 565562**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Prometon	11.7	U	330	258.6		ug/Kg		78	40 - 140	4	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Triphenylphosphate	*79*		*30 - 164*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39007/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39007**

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		01/26/22 16:18	01/27/22 16:18	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/26/22 16:18	01/27/22 16:18	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39007/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39007**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/26/22 16:18	01/27/22 16:18	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/26/22 16:18	01/27/22 16:18	1

Tentatively Identified Compound	*Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.667*	*U*	*mg/Kg*			*542-88-1*	*01/26/22 16:18*	*01/27/22 16:18*	*1*

Surrogate	*%Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*120*	*X*	*30 - 115*	*01/26/22 16:18*	*01/27/22 16:18*	*1*
2-Fluorophenol	*112*		*25 - 121*	*01/26/22 16:18*	*01/27/22 16:18*	*1*
2,4,6-Tribromophenol	*122*		*19 - 122*	*01/26/22 16:18*	*01/27/22 16:18*	*1*
Nitrobenzene-d5	*125*		*23 - 129*	*01/26/22 16:18*	*01/27/22 16:18*	*1*
Phenol-d5 (Surr)	*113*		*24 - 113*	*01/26/22 16:18*	*01/27/22 16:18*	*1*
p-Terphenyl-d14 (Surr)	*135*		*18 - 137*	*01/26/22 16:18*	*01/27/22 16:18*	*1*

Lab Sample ID: LCS 860-39007/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39007**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	1209		ug/Kg		91	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	1072		ug/Kg		80	35 - 135
1-Methylnaphthalene	1330	1073		ug/Kg		80	38 - 127
bis (2-chloroisopropyl) ether	1330	905.0		ug/Kg		68	25 - 124

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39007/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39007**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	1330	1172		ug/Kg		88	40 - 135
2,4,6-Trichlorophenol	1330	1173		ug/Kg		88	39 - 139
2,4-Dinitrotoluene	1330	1205		ug/Kg		90	48 - 131
Dinitrophenols	1330	991.2		ug/Kg		74	19 - 131
2,4-Dichlorophenol	1330	1149		ug/Kg		86	36 - 135
2,6-Dinitrotoluene	1330	1138		ug/Kg		85	42 - 136
Dichlorobenzidine, 3,3'-	1330	960.6		ug/Kg		72	35 - 134
4,6-Dinitro-2-methylphenol	1330	1144		ug/Kg		86	30 - 146
Acenaphthene	1330	1080		ug/Kg		81	37 - 131
Anthracene	1330	1170		ug/Kg		88	39 - 139
Acenaphthylene	1330	1132		ug/Kg		85	39 - 129
Benzo[a]anthracene	1330	1124		ug/Kg		84	44 - 135
Benzo[b]fluoranthene	1330	1101		ug/Kg		83	40 - 153
Benzo[k]fluoranthene	1330	1230		ug/Kg		92	33 - 156
Benzo[g,h,i]perylene	1330	1192		ug/Kg		89	40 - 153
Benzo[a]pyrene	1330	1138		ug/Kg		85	43 - 153
Di (2-ethylhexyl)phthalate	1330	1236		ug/Kg		93	46 - 145
Bis(2-chloroethyl)ether	1330	973.4		ug/Kg		73	33 - 127
Chrysene	1330	1097		ug/Kg		82	42 - 135
Dibutylphthalate	1330	1199		ug/Kg		90	43 - 142
Dibenz(a,h)anthracene	1330	1197		ug/Kg		90	41 - 155
Diethyl phthalate	1330	1082		ug/Kg		81	45 - 131
Dimethyl phthalate	1330	1103		ug/Kg		83	43 - 132
Fluoranthene	1330	1181		ug/Kg		89	41 - 138
Fluorene	1330	1161		ug/Kg		87	41 - 131
Hexachlorobenzene	1330	1121		ug/Kg		84	36 - 142
Hexachlorobutadiene	1330	1040		ug/Kg		78	35 - 129
Hexachlorocyclopentadiene	1330	985.1		ug/Kg		74	16 - 106
Hexachloroethane	1330	984.9		ug/Kg		74	36 - 121
Indeno[1,2,3-cd]pyrene	1330	1183		ug/Kg		89	39 - 154
Isophorone	1330	1068		ug/Kg		80	36 - 128
N-Nitrosodi-n-butylamine	1330	1138		ug/Kg		85	34 - 135
N-Nitrosodiethylamine	1330	1141		ug/Kg		86	36 - 127
N-Nitrosodiphenylamine	1330	1167		ug/Kg		88	27 - 155
N-Nitrosopyrrolidine	1330	1115		ug/Kg		84	38 - 136
Pentachlorobenzene	1330	1102		ug/Kg		83	38 - 136
Pentachlorophenol	1330	1050		ug/Kg		79	14 - 148
Phenanthrene	1330	1121		ug/Kg		84	37 - 139
Pyrene	1330	1139		ug/Kg		85	42 - 138
Naphthalene	1330	1064		ug/Kg		80	35 - 128
2-Methylnaphthalene	1330	1074		ug/Kg		81	36 - 126
Nitrobenzene	1330	1111		ug/Kg		83	32 - 129
Benzidine	1330	540.1		ug/Kg		41	12 - 112
Phenol	1.33	1.116		mg/Kg		84	34 - 127
N-Nitrosodimethylamine	1330	1083		ug/Kg		81	27 - 126
Atrazine	1330	1253		ug/Kg		94	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1330	1069		ug/Kg		80	30 - 130

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39007/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39007**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	103		30 - 115
2-Fluorophenol	107		25 - 121
2,4,6-Tribromophenol	118		19 - 122
Nitrobenzene-d5	102		23 - 129
Phenol-d5 (Surr)	111		24 - 113
p-Terphenyl-d14 (Surr)	109		18 - 137

Lab Sample ID: LCSD 860-39007/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39007**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)			1330	1277		ug/Kg		96	20 - 157	5	30
1,2,4,5-Tetrachlorobenzene			1330	1169		ug/Kg		88	35 - 135	9	30
1-Methylnaphthalene			1330	1165		ug/Kg		87	38 - 127	8	30
bis (2-chloroisopropyl) ether			1330	956.7		ug/Kg		72	25 - 124	6	30
2,4,5-Trichlorophenol			1330	1284		ug/Kg		96	40 - 135	9	30
2,4,6-Trichlorophenol			1330	1271		ug/Kg		95	39 - 139	8	30
2,4-Dinitrotoluene			1330	1324		ug/Kg		99	48 - 131	9	30
Dinitrophenols			1330	1061		ug/Kg		80	19 - 131	7	40
2,4-Dichlorophenol			1330	1208		ug/Kg		91	36 - 135	5	30
2,6-Dinitrotoluene			1330	1245		ug/Kg		93	42 - 136	9	30
Dichlorobenzidine, 3,3'-			1330	1022		ug/Kg		77	35 - 134	6	40
4,6-Dinitro-2-methylphenol			1330	1265		ug/Kg		95	30 - 146	10	40
Acenaphthene			1330	1198		ug/Kg		90	37 - 131	10	30
Anthracene			1330	1233		ug/Kg		92	39 - 139	5	30
Acenaphthylene			1330	1210		ug/Kg		91	39 - 129	7	30
Benzo[a]anthracene			1330	1221		ug/Kg		92	44 - 135	8	30
Benzo[b]fluoranthene			1330	1198		ug/Kg		90	40 - 153	8	30
Benzo[k]fluoranthene			1330	1312		ug/Kg		98	33 - 156	6	30
Benzo[g,h,i]perylene			1330	1332		ug/Kg		100	40 - 153	11	30
Benzo[a]pyrene			1330	1264		ug/Kg		95	43 - 153	10	30
Di (2-ethylhexyl)phthalate			1330	1329		ug/Kg		100	46 - 145	7	30
Bis(2-chloroethyl)ether			1330	1053		ug/Kg		79	33 - 127	8	30
Chrysene			1330	1195		ug/Kg		90	42 - 135	9	30
Dibutylphthalate			1330	1318		ug/Kg		99	43 - 142	9	30
Dibenz(a,h)anthracene			1330	1351		ug/Kg		101	41 - 155	12	30
Diethyl phthalate			1330	1195		ug/Kg		90	45 - 131	10	30
Dimethyl phthalate			1330	1201		ug/Kg		90	43 - 132	8	30
Fluoranthene			1330	1321		ug/Kg		99	41 - 138	11	30
Fluorene			1330	1240		ug/Kg		93	41 - 131	7	30
Hexachlorobenzene			1330	1189		ug/Kg		89	36 - 142	6	30
Hexachlorobutadiene			1330	1092		ug/Kg		82	35 - 129	5	30
Hexachlorocyclopentadiene			1330	982.3		ug/Kg		74	16 - 106	0	30
Hexachloroethane			1330	1047		ug/Kg		79	36 - 121	6	30
Indeno[1,2,3-cd]pyrene			1330	1332		ug/Kg		100	39 - 154	12	30
Isophorone			1330	1164		ug/Kg		87	36 - 128	9	30
N-Nitrosodi-n-butylamine			1330	1187		ug/Kg		89	34 - 135	4	30

QC Sample Results

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

Job ID: 860-19619-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39007/3-A
Matrix: Solid
Analysis Batch: 39132

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39007

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodiethylamine			1330	1170		ug/Kg		88	36 - 127	3	30
N-Nitrosodiphenylamine			1330	1242		ug/Kg		93	27 - 155	6	30
N-Nitrosopyrrolidine			1330	1173		ug/Kg		88	38 - 136	5	30
Pentachlorobenzene			1330	1144		ug/Kg		86	38 - 136	4	30
Pentachlorophenol			1330	1100		ug/Kg		82	14 - 148	5	40
Phenanthrene			1330	1216		ug/Kg		91	37 - 139	8	30
Pyrene			1330	1251		ug/Kg		94	42 - 138	9	30
Naphthalene			1330	1117		ug/Kg		84	35 - 128	5	30
2-Methylnaphthalene			1330	1174		ug/Kg		88	36 - 126	9	30
Nitrobenzene			1330	1211		ug/Kg		91	32 - 129	9	30
Benzidine			1330	570.4		ug/Kg		43	12 - 112	5	40
Phenol			1.33	1.176		mg/Kg		88	34 - 127	5	40
N-Nitrosodimethylamine			1330	1077		ug/Kg		81	27 - 126	1	30
Atrazine			1330	1378		ug/Kg		103	18 - 134	10	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	1182		ug/Kg		89	30 - 130	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*111*		*30 - 115*
2-Fluorophenol	*110*		*25 - 121*
2,4,6-Tribromophenol	*123*	*X*	*19 - 122*
Nitrobenzene-d5	*110*		*23 - 129*
Phenol-d5 (Surr)	*114*	*X*	*24 - 113*
p-Terphenyl-d14 (Surr)	*116*		*18 - 137*

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

Lab Sample ID: MB 860-39365/1-A
Matrix: Solid
Analysis Batch: 39342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39365

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 01:53	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 01:53	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 01:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*65 - 130*	*01/28/22 11:36*	*01/29/22 01:53*	*1*
o-Terphenyl (Surr)	*83*		*65 - 130*	*01/28/22 11:36*	*01/29/22 01:53*	*1*

Lab Sample ID: LCS 860-39365/2-A
Matrix: Solid
Analysis Batch: 39342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39365

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			994	1063		mg/Kg		107	70 - 135		

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 860-39365/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39342 **Prep Batch: 39365**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics (Over C10-C28)			996	1009		mg/Kg		101	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*98*		*65 - 130*
o-Terphenyl (Surr)	*89*		*65 - 130*

Lab Sample ID: LCSD 860-39365/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39342 **Prep Batch: 39365**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			994	1043		mg/Kg		105	70 - 135	2	35
Diesel Range Organics (Over C10-C28)			996	959.8		mg/Kg		96	70 - 135	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*65 - 130*
o-Terphenyl (Surr)	*87*		*65 - 130*

Lab Sample ID: 860-19619-1 MS **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39342 **Prep Batch: 39365**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	20.8	U	997	1026		mg/Kg		103	70 - 135
Diesel Range Organics (Over C10-C28)	20.8	U	999	954.3		mg/Kg		95	70 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*93*		*65 - 130*
o-Terphenyl (Surr)	*86*		*65 - 130*

Lab Sample ID: 860-19619-1 MSD **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39342 **Prep Batch: 39365**

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	20.8	U	991	1047		mg/Kg		106	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	20.8	U	993	989.2		mg/Kg		100	70 - 135	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*65 - 130*
o-Terphenyl (Surr)	*87*		*65 - 130*

QC Sample Results

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

Job ID: 860-19619-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-38890/1-A
Matrix: Solid
Analysis Batch: 38895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38890

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/26/22 08:34	01/26/22 14:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*35 - 135*	*01/26/22 08:34*	*01/26/22 14:18*	*1*
DCB Decachlorobiphenyl (Surr)	*115*		*25 - 143*	*01/26/22 08:34*	*01/26/22 14:18*	*1*

Lab Sample ID: LCS 860-38890/2-A
Matrix: Solid
Analysis Batch: 38895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38890

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	16.7	19.14		ug/Kg		115	13 - 192
Aldrin	16.7	18.43		ug/Kg		111	30 - 152
Hexachlorocyclohexane, alpha-	16.7	17.42		ug/Kg		105	29 - 160
Hexachlorocyclohexane, beta-	16.7	19.15		ug/Kg		115	30 - 155
Hexachlorocyclohexane, delta-	16.7	17.69		ug/Kg		106	20 - 161
Dieldrin	16.7	19.24		ug/Kg		115	33 - 153
Endosulfan I	16.7	18.57		ug/Kg		111	30 - 151
Endosulfan II	16.7	17.20		ug/Kg		103	27 - 153
Endosulfan sulfate	16.7	18.75		ug/Kg		112	15 - 170
Endrin	16.7	20.31		ug/Kg		122	25 - 162
Endrin aldehyde	16.7	18.29		ug/Kg		110	49 - 117
Hexachlorocyclohexane, gamma-	16.7	18.31		ug/Kg		110	30 - 158
Heptachlor	16.7	18.86		ug/Kg		113	29 - 163
Heptachlor epoxide	16.7	18.26		ug/Kg		110	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-38890/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT			16.7	18.62		ug/Kg		112	13 - 192	3	25
Aldrin			16.7	18.12		ug/Kg		109	30 - 152	2	25
Hexachlorocyclohexane, alpha-			16.7	17.11		ug/Kg		103	29 - 160	2	25
Hexachlorocyclohexane, beta-			16.7	18.75		ug/Kg		113	30 - 155	2	25
Hexachlorocyclohexane, delta-			16.7	17.26		ug/Kg		104	20 - 161	2	25
Dieldrin			16.7	18.81		ug/Kg		113	33 - 153	2	25
Endosulfan I			16.7	18.15		ug/Kg		109	30 - 151	2	25
Endosulfan II			16.7	16.84		ug/Kg		101	27 - 153	2	25
Endosulfan sulfate			16.7	18.21		ug/Kg		109	15 - 170	3	25
Endrin			16.7	19.79		ug/Kg		119	25 - 162	3	25
Endrin aldehyde			16.7	17.90		ug/Kg		107	49 - 117	2	25
Hexachlorocyclohexane, gamma-			16.7	17.85		ug/Kg		107	30 - 158	3	25
Heptachlor			16.7	18.53		ug/Kg		111	29 - 163	2	25
Heptachlor epoxide			16.7	17.76		ug/Kg		107	30 - 150	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*35 - 140*	*01/26/22 08:34*	*01/26/22 14:24*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 142*	*01/26/22 08:34*	*01/26/22 14:24*	*1*

Lab Sample ID: LCS 860-38890/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016			0.167	0.1416		mg/Kg		85	27 - 121
Aroclor 1260			0.167	0.1484		mg/Kg		89	27 - 139

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-38890/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	72		35 - 140
DCB Decachlorobiphenyl (Surr)	86		37 - 142

Lab Sample ID: LCSD 860-38890/5-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1363		mg/Kg		82	27 - 121	4	20
Aroclor 1260			0.167	0.1452		mg/Kg		87	27 - 139	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	67		35 - 140
DCB Decachlorobiphenyl (Surr)	87		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565272/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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		02/05/22 11:25	02/10/22 06:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 06:07	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/05/22 11:25	02/10/22 06:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	02/05/22 11:25	02/10/22 06:07	1

Lab Sample ID: LCS 280-565272/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.9312		mg/Kg		93	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9739		mg/Kg		97	80 - 124
2,4,6-Trinitrotoluene			1.00	0.9953		mg/Kg		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	99		83 - 122

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 860-19619-1 MS **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.0214	U	0.978	0.8718		mg/Kg		89	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0406	U	0.978	0.8980		mg/Kg		92	80 - 124
2,4,6-Trinitrotoluene	0.0290	U	0.978	0.9582		mg/Kg		98	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dinitrobenzene	*99*		*83 - 122*

Lab Sample ID: 860-19619-1 MSD **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.0214	U	0.990	0.9272		mg/Kg		94	80 - 120	6	30
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0406	U	0.990	0.9792		mg/Kg		99	80 - 124	9	30
2,4,6-Trinitrotoluene	0.0290	U	0.990	1.028		mg/Kg		104	80 - 120	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*104*		*83 - 122*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-38773/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38740 **Prep Batch: 38773**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Nitrite as N	0.0500	U	1.00	0.0500	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Nitrate Nitrite as N	0.108	U	1.00	0.108	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/25/22 11:00	01/25/22 11:46	1

Lab Sample ID: LCS 860-38773/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38740 **Prep Batch: 38773**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	106.3		mg/Kg		106	80 - 120
Nitrate as N	100	103.4		mg/Kg		103	80 - 120
Fluoride	100	106.1		mg/Kg		106	80 - 120
Nitrite as N	50.0	47.19		mg/Kg		94	80 - 120
Nitrate Nitrite as N	150	150.6		mg/Kg		100	80 - 120
Sulfate	100	104.4		mg/Kg		104	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-38773/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 38740 — **Prep Batch: 38773**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	108.0		mg/Kg		108	80 - 120	2	20
Nitrate as N			100	102.5		mg/Kg		103	80 - 120	1	20
Fluoride			100	105.4		mg/Kg		105	80 - 120	1	20
Nitrite as N			50.0	46.96		mg/Kg		94	80 - 120	0	20
Nitrate Nitrite as N			150	149.5		mg/Kg		100	80 - 120	1	20
Sulfate			100	103.9		mg/Kg		104	80 - 120	0	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564802

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.0500	0.04711	J	ug/L		94	70 - 130		

Lab Sample ID: MB 280-565161/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565540 — **Prep Batch: 565161**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:01	1

Lab Sample ID: LCS 280-565161/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565540 — **Prep Batch: 565161**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.500	0.5047		ug/Kg		101	80 - 120		

Lab Sample ID: 860-19619-2 MS — **Client Sample ID: Cell17-Square 117-S-3-4-220124**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565540 — **Prep Batch: 565161**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	0.0824	U	0.481	0.4447	J	ug/Kg		92	70 - 130		

Lab Sample ID: 860-19619-2 MSD — **Client Sample ID: Cell17-Square 117-S-3-4-220124**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565540 — **Prep Batch: 565161**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	0.0824	U	0.458	0.4073	J	ug/Kg		89	70 - 130	9	15

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 556129

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.500	0.490	U	ug/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4417	J	ug/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		95	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

Lab Sample ID: MB 280-565681/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566232 **Prep Batch: 565681**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/10/22 11:04	02/16/22 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/10/22 11:04*	*02/16/22 11:21*	*1*
13C8 PFOS	*107*		*70 - 130*	*02/10/22 11:04*	*02/16/22 11:21*	*1*

Lab Sample ID: LCS 280-565681/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566232 **Prep Batch: 565681**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	20.31		ug/Kg		102	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	18.45		ug/Kg		101	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.74		ug/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*108*		*70 - 130*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-39512/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39615 **Prep Batch: 39512**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0153	U	0.192	0.0153	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Arsenic	0.0593	U	0.385	0.0593	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Barium	0.0334	U	0.385	0.0334	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Beryllium	0.0178	U	0.192	0.0178	mg/Kg		01/30/22 14:00	01/31/22 11:47	1

QC Sample Results

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

Job ID: 860-19619-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 860-39512/1-A
Matrix: Solid
Analysis Batch: 39615

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39512

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0112	U	0.192	0.0112	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Chromium	0.0261	U	0.385	0.0261	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Copper	0.0251	U	0.385	0.0251	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Iron	0.225	U	1.92	0.225	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Manganese	0.0245	U	0.192	0.0245	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Lead	0.0186	U	0.192	0.0186	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Antimony	0.0114	U	0.192	0.0114	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Selenium	0.0477	U	0.192	0.0477	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Thallium	0.0230	U	0.192	0.0230	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Uranium	0.00575	U	0.0962	0.00575	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Zinc	0.0426	U	0.385	0.0426	mg/Kg		01/30/22 14:00	01/31/22 11:47	1

Lab Sample ID: LCS 860-39512/2-A
Matrix: Solid
Analysis Batch: 39615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39512

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	4.81	4.643		mg/Kg		97	80 - 120
Arsenic	9.62	9.906		mg/Kg		103	80 - 120
Barium	9.62	9.722		mg/Kg		101	80 - 120
Beryllium	9.62	9.485		mg/Kg		99	80 - 120
Cadmium	9.62	9.701		mg/Kg		101	80 - 120
Chromium	9.62	9.581		mg/Kg		100	80 - 120
Copper	9.62	9.468		mg/Kg		98	80 - 120
Iron	48.1	47.68		mg/Kg		99	80 - 120
Manganese	9.62	9.619		mg/Kg		100	80 - 120
Lead	9.62	9.385		mg/Kg		98	80 - 120
Antimony	9.62	9.135		mg/Kg		95	80 - 120
Selenium	9.62	9.890		mg/Kg		103	80 - 120
Thallium	9.62	9.440		mg/Kg		98	80 - 120
Uranium	2.40	2.233		mg/Kg		93	80 - 120
Zinc	9.62	10.25		mg/Kg		107	80 - 120

Lab Sample ID: LCSD 860-39512/3-A
Matrix: Solid
Analysis Batch: 39615

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39512

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.81	4.646		mg/Kg		97	80 - 120	0	20
Arsenic	9.62	9.841		mg/Kg		102	80 - 120	1	20
Barium	9.62	9.525		mg/Kg		99	80 - 120	2	20
Beryllium	9.62	9.511		mg/Kg		99	80 - 120	0	20
Cadmium	9.62	9.656		mg/Kg		100	80 - 120	0	20
Chromium	9.62	9.587		mg/Kg		100	80 - 120	0	20
Copper	9.62	9.432		mg/Kg		98	80 - 120	0	20
Iron	48.1	47.59		mg/Kg		99	80 - 120	0	20
Manganese	9.62	9.644		mg/Kg		100	80 - 120	0	20
Lead	9.62	9.392		mg/Kg		98	80 - 120	0	20
Antimony	9.62	9.353		mg/Kg		97	80 - 120	2	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-39512/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39615 — **Prep Batch: 39512**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium			9.62	9.806		mg/Kg		102	80 - 120	1	20
Thallium			9.62	9.427		mg/Kg		98	80 - 120	0	20
Uranium			2.40	2.261		mg/Kg		94	80 - 120	1	20
Zinc			9.62	10.02		mg/Kg		104	80 - 120	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39206/10-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39206**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00356	U	0.0185	0.00356	mg/Kg		01/28/22 08:00	01/28/22 11:49	1

Lab Sample ID: LCS 860-39206/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39206**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.192	0.1989		mg/Kg		103	80 - 120		

Lab Sample ID: LCSD 860-39206/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39206**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.192	0.1998		mg/Kg		104	80 - 120	0	20

Lab Sample ID: 860-19619-1 MS — **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39206**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.00490	J	0.189	0.1887		mg/Kg		97	75 - 125		

Lab Sample ID: 860-19619-1 MSD — **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39206**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00490	J	0.189	0.1911		mg/Kg		99	75 - 125	1	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40511/24-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40553 — **Prep Batch: 40511**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/07/22 14:39	02/07/22 16:12	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 860-40511/25-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40553 — **Prep Batch: 40511**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	102.7		ug/Kg		103	90 - 110

Lab Sample ID: LLCS 860-40511/26-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40553 — **Prep Batch: 40511**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	50.0	54.17		ug/Kg		108	90 - 110

Method: 9045D - pH

Lab Sample ID: 860-19619-1 DU — **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 40331

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	9.4	HF	9.4		SU		0.5	20

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-42223/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 12:48	1

Lab Sample ID: LCS 860-42223/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	1.00	0.9730		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 860-42223/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	1.00	0.9910		mg/Kg		99	90 - 110	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193044/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/10/22 15:50	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 560-193044/2 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193044

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			2250	2168		mg/L		96	90 - 110		

Lab Sample ID: 860-19619-1 DU **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid **Prep Type: 7 Day Leach**
Analysis Batch: 193044

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	213			215.0		mg/L				0.9	20

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	5035	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	5035	
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	5035	
860-19619-2 MS	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	5035	

Analysis Batch: 39864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8260D SIM	39768
MB 860-39864/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-39864/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-39864/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8260D SIM	39768

Analysis Batch: 40051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8260D SIM	39768
MB 860-40051/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-40051/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-40051/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	
860-19619-2 MS	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8260D SIM	39768

Analysis Batch: 192640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8260B	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8260B	
MB 560-192640/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192640/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192640/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	3550C	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	3550C	
MB 860-39007/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39007/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39007/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 39132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8270D	39007
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8270D	39007
MB 860-39007/1-A	Method Blank	Total/NA	Solid	8270D	39007
LCS 860-39007/2-A	Lab Control Sample	Total/NA	Solid	8270D	39007
LCSD 860-39007/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	39007

Prep Batch: 565562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	3546	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	3546	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS Semi VOA (Continued)

Prep Batch: 565562 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-565562/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	3546	
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	3546	
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	3546	

Analysis Batch: 565810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8270D	565562
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8270D	565562
MB 400-565562/1-A	Method Blank	Total/NA	Solid	8270D	565562
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	8270D	565562
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8270D	565562
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8270D	565562

GC Semi VOA

Prep Batch: 38890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	3550C	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	3550C	
MB 860-38890/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 38895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8081B	38890
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8081B	38890
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8081B	38890
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	8081B	38890
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	38890

Analysis Batch: 38913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8082A	38890
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8082A	38890
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8082A	38890
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	8082A	38890
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	38890

Analysis Batch: 39342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8015B NM	39365
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8015B NM	39365
MB 860-39365/1-A	Method Blank	Total/NA	Solid	8015B NM	39365
LCS 860-39365/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39365
LCSD 860-39365/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39365
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8015B NM	39365
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8015B NM	39365

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Prep Batch: 39365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8015NM Prep	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8015NM Prep	
MB 860-39365/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-39365/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-39365/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8015NM Prep	
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8015NM Prep	

HPLC/IC

Analysis Batch: 38740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	9056A	38773
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	9056A	38773
MB 860-38773/1-A	Method Blank	Total/NA	Solid	9056A	38773
LCS 860-38773/2-A	Lab Control Sample	Total/NA	Solid	9056A	38773
LCSD 860-38773/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	38773

Analysis Batch: 38741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	9056A	38773
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	9056A	38773
MB 860-38773/1-A	Method Blank	Total/NA	Solid	9056A	38773
LCS 860-38773/2-A	Lab Control Sample	Total/NA	Solid	9056A	38773
LCSD 860-38773/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	38773

Prep Batch: 38773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	300_Prep	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	300_Prep	
MB 860-38773/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-38773/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-38773/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Drying Batch: 564725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	Prep/Air Dry	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	Prep/Air Dry	
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	Prep/Air Dry	
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8330B	564725
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8330B	564725
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8330B	564725
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8330B	564725

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Analysis Batch: 565637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8330B	565272
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8330B	565272
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	565272
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	565272
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8330B	565272
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8330B	565272

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	6860	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	6860	
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	
860-19619-2 MS	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	6860	
860-19619-2 MSD	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	6860	

Analysis Batch: 565540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	6860	565161
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	6860	565161
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	565161
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	565161
860-19619-2 MS	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	6860	565161
860-19619-2 MSD	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	6860	565161

Prep Batch: 565681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	PFC leach	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	PFC leach	
MB 280-565681/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 566232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	DV-LC-0012	565681
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	DV-LC-0012	565681
MB 280-565681/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565681
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565681

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Prep Batch: 39206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	7471A	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	7471A	
MB 860-39206/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39206/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39206/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	7471A	
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	7471A	

Analysis Batch: 39396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	7471A	39206
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	7471A	39206
MB 860-39206/10-A	Method Blank	Total/NA	Solid	7471A	39206
LCS 860-39206/11-A	Lab Control Sample	Total/NA	Solid	7471A	39206
LCSD 860-39206/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39206
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	7471A	39206
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	7471A	39206

Prep Batch: 39512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	3051A	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	3051A	
MB 860-39512/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-39512/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-39512/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 39615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-39512/1-A	Method Blank	Total/NA	Solid	6020A	39512
LCS 860-39512/2-A	Lab Control Sample	Total/NA	Solid	6020A	39512
LCSD 860-39512/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	39512

Analysis Batch: 39892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	6020A	39512
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	6020A	39512

General Chemistry

Analysis Batch: 39359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	Moisture - 2540	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	Moisture - 2540	
MB 860-39359/1	Method Blank	Total/NA	Solid	Moisture - 2540	
860-19619-1 DU	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	Moisture - 2540	

Leach Batch: 40316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Soluble	Solid	DI Leach	
860-19619-2	Cell17-Square 117-S-3-4-220124	Soluble	Solid	DI Leach	
860-19619-1 DU	Cell17-Square 37-S-3-4-220124	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Analysis Batch: 40331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Soluble	Solid	9045D	40316
860-19619-2	Cell17-Square 117-S-3-4-220124	Soluble	Solid	9045D	40316
860-19619-1 DU	Cell17-Square 37-S-3-4-220124	Soluble	Solid	9045D	40316

Prep Batch: 40511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	9012A	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	9012A	
MB 860-40511/24-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40511/25-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40511/26-A	Lab Control Sample	Total/NA	Solid	9012A	

Analysis Batch: 40553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	9012A	40511
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	9012A	40511
MB 860-40511/24-A	Method Blank	Total/NA	Solid	9012A	40511
LCS 860-40511/25-A	Lab Control Sample	Total/NA	Solid	9012A	40511
LLCS 860-40511/26-A	Lab Control Sample	Total/NA	Solid	9012A	40511

Prep Batch: 42223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	Distill/Phenol	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	Distill/Phenol	
MB 860-42223/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 42401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	9066	42223
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	9066	42223
MB 860-42223/1-A	Method Blank	Total/NA	Solid	9066	42223
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	9066	42223
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	42223

Leach Batch: 193042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	7 Day Leach	Solid	335.521	
860-19619-2	Cell17-Square 117-S-3-4-220124	7 Day Leach	Solid	335.521	
860-19619-1 DU	Cell17-Square 37-S-3-4-220124	7 Day Leach	Solid	335.521	

Analysis Batch: 193044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	7 Day Leach	Solid	SM 2540C	193042
860-19619-2	Cell17-Square 117-S-3-4-220124	7 Day Leach	Solid	SM 2540C	193042
MB 560-193044/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193044/2	Lab Control Sample	Total/NA	Solid	SM 2540C	
860-19619-1 DU	Cell17-Square 37-S-3-4-220124	7 Day Leach	Solid	SM 2540C	193042

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	Dry and Grind	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	Dry and Grind	

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	Fill_Geo-21	549041
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	Fill_Geo-21	549041

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 37-S-3-4-220124 **Lab Sample ID: 860-19619-1**
Date Collected: 01/24/22 10:34 **Matrix: Solid**
Date Received: 01/25/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.1 g	5 mL	192640	01/27/22 18:31	RJD	XEN CC
Total/NA	Prep	5035			4.95 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 17:37	EM	XEN STF
Total/NA	Prep	3550C			30.01 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39132	01/27/22 23:20	T1S	XEN STF
Total/NA	Prep	3546			15.39 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 16:24	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.15 g	10 mL	39365	01/28/22 11:36	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39342	01/29/22 02:13	IS	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			38895	01/26/22 16:10	WP	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			38913	01/26/22 15:12	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.60 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 06:53	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.92 g	50 mL	38773	01/25/22 11:00	ANP	XEN STF
Total/NA	Analysis	9056A		1			38740	01/25/22 17:37	ANP	XEN STF
Total/NA	Prep	300_Prep			4.92 g	50 mL	38773	01/25/22 11:00	ANP	XEN STF
Total/NA	Analysis	9056A		1			38741	01/25/22 17:37	ANP	XEN STF
Total/NA	Prep	6860			10.65 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 18:17	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.98 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 11:39	AGCM	TAL DEN
Total/NA	Prep	3051A			.53 g	50 mL	39512	01/30/22 14:01	PB	XEN STF
Total/NA	Analysis	6020A		10			39892	02/01/22 21:19	DCL	XEN STF
Total/NA	Prep	7471A			.50 g	50 mL	39206	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 11:53	SHZ	XEN STF
Total/NA	Prep	9012A			0.5055 g	6 mL	40511	02/07/22 14:39	CM1	XEN STF
Total/NA	Analysis	9012A		1			40553	02/07/22 16:29	CM1	XEN STF
Soluble	Leach	DI Leach			20.03 g	20 mL	40316	02/04/22 12:59	TL	XEN STF
Soluble	Analysis	9045D		1	20.03 g	20 mL	40331	02/04/22 14:13	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 12:55	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			310.9000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552697	02/28/22 09:47	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 117-S-3-4-220124 Lab Sample ID: 860-19619-2

Date Collected: 01/24/22 11:15 **Matrix: Solid**
Date Received: 01/25/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.54 g	5 mL	192640	01/27/22 18:57	RJD	XEN CC
Total/NA	Prep	5035			5.01 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 01:09	A1S	XEN STF
Total/NA	Prep	3550C			30.02 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39132	01/27/22 23:40	T1S	XEN STF
Total/NA	Prep	3546			15.15 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 16:50	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10 g	10 mL	39365	01/28/22 11:36	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39342	01/29/22 03:12	IS	XEN STF
Total/NA	Prep	3550C			30.01 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			38895	01/26/22 16:26	WP	XEN STF
Total/NA	Prep	3550C			30.01 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			38913	01/26/22 15:22	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.07 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 08:02	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.93 g	50 mL	38773	01/25/22 11:00	ANP	XEN STF
Total/NA	Analysis	9056A		1			38740	01/25/22 17:49	ANP	XEN STF
Total/NA	Prep	300_Prep			4.93 g	50 mL	38773	01/25/22 11:00	ANP	XEN STF
Total/NA	Analysis	9056A		1			38741	01/25/22 17:49	ANP	XEN STF
Total/NA	Prep	6860			10.0 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 18:22	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.87 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 11:47	AGCM	TAL DEN
Total/NA	Prep	3051A			.56 g	50 mL	39512	01/30/22 14:01	PB	XEN STF
Total/NA	Analysis	6020A		10			39892	02/01/22 21:22	DCL	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	39206	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 12:03	SHZ	XEN STF
Total/NA	Prep	9012A			0.5004 g	6 mL	40511	02/07/22 14:39	CM1	XEN STF
Total/NA	Analysis	9012A		1			40553	02/07/22 16:31	CM1	XEN STF
Soluble	Leach	DI Leach			20.13 g	20 mL	40316	02/04/22 12:59	TL	XEN STF
Soluble	Analysis	9045D		1	20.13 g	20 mL	40331	02/04/22 14:13	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:03	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			302.9000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552702	02/28/22 10:20	JCB	TAL SL

Lab Chronicle

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

Job ID: 860-19619-1

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

Laboratory: Eurofins St. Louis

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19619-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19619-1	Cell17-Square 37-S-3-4-220124	Solid	01/24/22 10:34	01/25/22 09:45
860-19619-2	Cell17-Square 117-S-3-4-220124	Solid	01/24/22 11:15	01/25/22 09:45

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

Temp: 0.2 IR ID HOU-323
C/F +0.2
Corrected Temp: 0.4

eurofins | Environment Testing America

Client Information	Sampler: Cory Rodriguez	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):
Client Contact: Alison Schaffer	Phone: 432-599-3594	E-Mail: Sachin.Kudchadkar@Eurofinset.com	COC No: 600-78203-21039.1
Company: ARCADIS U.S. Inc.			Page: Page 1 1
Address: 630 Plaza Drive Suite 100	Due Date Requested:		Job #:
City: Highlands Ranch	TAT Requested (days): standard		
State, Zip: CO, 80129-2377			
Phone: 303-710-7537(Tel)	PO #:		
Email: Alison.Schaffer@arcadis.com	WO #:		
Project Name: Chevron Jal Land Farm Soils	Project #: 86002103		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B- Volatiles	8270C- Semivolatiles/ 8081 Pesticides/ 8082 PCB	8880 Perchlorate-Ddenver- soil jar 4 oz	8330B Denver soil jar 4 oz	PFC Denver- plastic 16 oz jar	8270D_AgChem -Pensacola soil jar 4 oz	2540C_Calcd Local Method/ Moisture/ pH 9045	8015B_GRO	8015_DRO/ORO	GA-01_R_ra- Rad 226/228- St Louis- 2 plastic jars 16	9056- Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate; Fluoride	6020/7471 St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
Cell 17-Square 21-5-3-4-220124	1/24/22	1034	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
Cell 17-Square 17-5-3-4-220124	1/24/22	1115	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
TB																					

860-19619 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Cory Rodriguez	Date/Time: 1/24/22 1706	Company: Arcadis	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: YCRS	Date/Time: 1/25/22 945	Company EX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Cooler Temperature(s) °C and Other Remarks:

Ver 01/16/2019

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9667.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19619-1
Address: 13715 Rider Trail North,	Due Date Requested: 2/11/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell17-Square 37-S-3-4-220124 (860-19619-1)	1/24/22	10:34 Central		Solid			X	1	
Cell17-Square 117-S-3-4-220124 (860-19619-2)	1/24/22	11:15 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 out 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 complicance 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: 1/26/22 1700	Company: FEDEX	Received by: FEDEX	Date/Time:	Company
Relinquished by: FEDEX	Date/Time:	Company	Received by: Autumn R. Jo	Date/Time: JAN 28 2022 1120	Company: ETA STL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9662.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19619-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/10/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell17-Square 37-S-3-4-220124 (860-19619-1)	1/24/22	10:34 Central		Solid			X	X	X	2	
Cell17-Square 117-S-3-4-220124 (860-19619-2)	1/24/22	11:15 Central		Solid			X	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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/26/22 1700	EX		1/27/22 1005	ETADEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.1 IR3 (F-0.2

3.1 gn 1/27/22

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9666.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19619-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/10/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B_Solid (MOD) mod	2540C/TX_7Day_T	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square 37-S-3-4-220124 (860-19619-1)	1/24/22	10:34 Central		Solid			X	X	1	
Cell17-Square 117-S-3-4-220124 (860-19619-2)	1/24/22	11:15 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	1/26/22 1700	EX	[signature]	01/27/2022 1530	EX
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: 3.0 AC IR-10 3.3

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19619-1

Login Number: 19619 **List Source: Eurofins Houston**
List Number: 1
Creator: Rubio, Yuri

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	0.4
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	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19619-1

Login Number: 19619 **List Source: Eurofins Houston**
List Number: 2
Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
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	0.4
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.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19619-1

Login Number: 19619 **List Source: Eurofins Corpus Christi**
List Number: 3 **List Creation: 01/27/22 01:41 PM**
Creator: Forrester, Caitlyn D

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.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19619-1

Login Number: 19619 **List Source: Eurofins Denver**
List Number: 5 **List Creation: 01/27/22 04:38 PM**
Creator: Rystrom, Joshua R

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	
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").	True	
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: 860-19619-1

Login Number: 19619 **List Source: Eurofins Pensacola**
List Number: 4 **List Creation: 01/27/22 04:50 PM**
Creator: Whitley, Adrian

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	0.0°C IR8
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: 860-19619-1

Login Number: 19619 **List Source: Eurofins St. Louis**
List Number: 6 **List Creation: 02/01/22 12:03 PM**
Creator: Johnson, Autumn R

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	
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.	N/A	

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ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19624-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
2/28/2022 5:51:13 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

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

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

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

Laboratory Job ID: 860-19624-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA TICs

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

GC Semi 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.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
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.

LCMS

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding 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.

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

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19624-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19624-1

Receipt
The samples were received on 1/25/2022 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

GC/MS VOA
Method 8260B: The following analyte recovered outside control limits for the LCS associated with analytical batch 560-192640: Tetrachloroethene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been 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_AgChem: Internal standard (ISTD) response for Prometon for the following samples in analytical batch 400-565810 was outside acceptance criteria: Cell17-Square 26-S-3-4-220124 (860-19624-1), Cell17-Square 129-S-3-4-220124 (860-19624-2), (LCS 400-565562/2-A), (MB 400-565562/1-A), (860-19619-G-1-C), (860-19619-G-1-A MS) and (860-19619-G-1-B MSD). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

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

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

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

Pesticides
Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-38890 and analytical batch 860-38895 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC
Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell17-Square 26-S-3-4-220124 (860-19624-1), Cell17-Square 129-S-3-4-220124 (860-19624-2), (860-19624-F-2 DU) and (860-19624-F-2 TRL) in preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell17-Square 26-S-3-4-220124 (860-19624-1), Cell17-Square 129-S-3-4-220124 (860-19624-2), (860-19624-F-2 DU) and (860-19624-F-2 TRL). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell17-Square 26-S-3-4-220124 (860-19624-1), Cell17-Square 129-S-3-4-220124 (860-19624-2), (860-19624-F-2-B DU) and (860-19624-F-2-C TRL) in preparation batch 280-564725 and 280-565272 by 8330B_Sonc_10g for 8330B.

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

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19624-1 (Continued)

Laboratory: Eurofins Houston (Continued)

LCMS

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

PFAS

Method PFC: In preparation batch 280-565681, the following samples were re-prepared outside of preparation holding time due to the samples in the original batch being extracted but not filtered and sent on to the instrument analyst: Cell17-Square 26-S-3-4-220124 (860-19624-1) and Cell17-Square 129-S-3-4-220124 (860-19624-2). Method PFC_Leach/PFC.

Method PFC: During pH adjustment, the following samples required 2 mL of acid to reach the desired pH: Cell17-Square 26-S-3-4-220124 (860-19624-1) and Cell17-Square 129-S-3-4-220124 (860-19624-2). Most samples take less than 1 mL to reach the desired range preparation batch 280-565681. Method:PFC

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

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 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 AnalyteTh-234 Pa-234Th-234 U-238Pb-210 Po-210 Pb-210 Bi-210Cs-137 Ba-137mPb-212 Po-216Xe-131m Xe-131Sb-125 Te-125mAg-108m Ag-108Rh-106 Ru-106Pb-212 Th-228Pb-212 Ra-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. Cell17-Square 26-S-3-4-220124 (860-19624-1), Cell17-Square 129-S-3-4-220124 (860-19624-2), (LCS 160-549553/2-A), (MB 160-549553/1-A), (860-19990-D-2-B) and (860-19990-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 26-S-3-4-220124 Lab Sample ID: 860-19624-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	666		10.0	3.55	mg/Kg	1		9056A	Total/NA
Nitrate as N	11.0		1.00	0.108	mg/Kg	1		9056A	Total/NA
Fluoride	3.01	J	5.02	1.00	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.456	J	1.00	0.0502	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	11.5		1.00	0.108	mg/Kg	1		9056A	Total/NA
Sulfate	33.4		10.0	4.34	mg/Kg	1		9056A	Total/NA
Perchlorate	0.651		0.496	0.0817	ug/Kg	1		6860	Total/NA
Arsenic	4.39		3.70	0.571	mg/Kg	10		6020A	Total/NA
Barium	385		3.70	0.321	mg/Kg	10		6020A	Total/NA
Chromium	3.51	J	3.70	0.251	mg/Kg	10		6020A	Total/NA
Copper	1.52	J	3.70	0.242	mg/Kg	10		6020A	Total/NA
Iron	3100		18.5	2.17	mg/Kg	10		6020A	Total/NA
Manganese	22.4		1.85	0.236	mg/Kg	10		6020A	Total/NA
Lead	1.86		1.85	0.179	mg/Kg	10		6020A	Total/NA
Antimony	0.147	J	1.85	0.110	mg/Kg	10		6020A	Total/NA
Uranium	0.535	J	0.926	0.0554	mg/Kg	10		6020A	Total/NA
Zinc	9.41		3.70	0.410	mg/Kg	10		6020A	Total/NA
Mercury	0.00688	J	0.0179	0.00343	mg/Kg	1		7471A	Total/NA
pH	8.5	HF			SU	1		9045D	Soluble
Total Dissolved Solids	503		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell17-Square 129-S-3-4-220124 Lab Sample ID: 860-19624-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Styrene	0.474	J	4.52	0.271	ug/Kg	1		8260B	Total/NA
Heptachlor epoxide	0.274	J	0.832	0.244	ug/Kg	1		8081B	Total/NA
Chloride	93.7		10.2	3.60	mg/Kg	1		9056A	Total/NA
Nitrate as N	15.9		1.02	0.110	mg/Kg	1		9056A	Total/NA
Fluoride	3.41	J	5.09	1.02	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.593	J	1.02	0.0509	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	16.5		1.02	0.110	mg/Kg	1		9056A	Total/NA
Sulfate	50.8		10.2	4.40	mg/Kg	1		9056A	Total/NA
Arsenic	2.53	J	3.77	0.582	mg/Kg	10		6020A	Total/NA
Barium	242		3.77	0.327	mg/Kg	10		6020A	Total/NA
Beryllium	0.192	J	1.89	0.175	mg/Kg	10		6020A	Total/NA
Chromium	4.64		3.77	0.256	mg/Kg	10		6020A	Total/NA
Copper	1.76	J	3.77	0.246	mg/Kg	10		6020A	Total/NA
Iron	4190		18.9	2.21	mg/Kg	10		6020A	Total/NA
Manganese	39.6		1.89	0.240	mg/Kg	10		6020A	Total/NA
Lead	2.59		1.89	0.183	mg/Kg	10		6020A	Total/NA
Antimony	0.175	J	1.89	0.112	mg/Kg	10		6020A	Total/NA
Uranium	0.374	J	0.943	0.0564	mg/Kg	10		6020A	Total/NA
Zinc	11.5		3.77	0.418	mg/Kg	10		6020A	Total/NA
Mercury	0.00669	J	0.0169	0.00326	mg/Kg	1		7471A	Total/NA
pH	8.9	HF			SU	1		9045D	Soluble
Total Dissolved Solids	201		10.0	10.0	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. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 26-S-3-4-220124 **Lab Sample ID: 860-19624-1**
Date Collected: 01/24/22 12:10 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.717	U	4.91	0.717	ug/Kg			01/27/22 19:22	1
Chloromethane	1.18	U	4.91	1.18	ug/Kg			01/27/22 19:22	1
Vinyl chloride	0.589	U	4.91	0.589	ug/Kg			01/27/22 19:22	1
Bromomethane	1.08	U	4.91	1.08	ug/Kg			01/27/22 19:22	1
Trichlorofluoromethane	0.491	U	4.91	0.491	ug/Kg			01/27/22 19:22	1
Acrolein	8.45	U	49.1	8.45	ug/Kg			01/27/22 19:22	1
1,1-Dichloroethene	0.491	U	4.91	0.491	ug/Kg			01/27/22 19:22	1
trans-1,2-Dichloroethene	0.491	U	4.91	0.491	ug/Kg			01/27/22 19:22	1
Methyl tert-butyl ether	0.599	U	4.91	0.599	ug/Kg			01/27/22 19:22	1
1,3-Dichlorobenzene	0.305	U	4.91	0.305	ug/Kg			01/27/22 19:22	1
Methylene Chloride	4.91	U	24.6	4.91	ug/Kg			01/27/22 19:22	1
Acrylonitrile	3.54	U	49.1	3.54	ug/Kg			01/27/22 19:22	1
cis-1,2-Dichloroethene	0.560	U	4.91	0.560	ug/Kg			01/27/22 19:22	1
Carbon tetrachloride	0.501	U	4.91	0.501	ug/Kg			01/27/22 19:22	1
Benzene	0.619	U	4.91	0.619	ug/Kg			01/27/22 19:22	1
1,2-Dichloroethane	0.511	U	4.91	0.511	ug/Kg			01/27/22 19:22	1
Trichloroethene	0.275	U	4.91	0.275	ug/Kg			01/27/22 19:22	1
1,1,1-Trichloroethane	0.491	U	4.91	0.491	ug/Kg			01/27/22 19:22	1
1,1-Dichloroethane	0.580	U	4.91	0.580	ug/Kg			01/27/22 19:22	1
1,2-Dichloropropane	0.491	U	4.91	0.491	ug/Kg			01/27/22 19:22	1
1,4-Dioxane	18.7	U	98.2	18.7	ug/Kg			01/27/22 19:22	1
Chloroform	0.855	U	4.91	0.855	ug/Kg			01/27/22 19:22	1
Bromodichloromethane	0.196	U	4.91	0.196	ug/Kg			01/27/22 19:22	1
1,1-Dichloropropene	0.511	U	4.91	0.511	ug/Kg			01/27/22 19:22	1
cis-1,3-Dichloropropene	0.442	U	4.91	0.442	ug/Kg			01/27/22 19:22	1
Toluene	0.884	U	4.91	0.884	ug/Kg			01/27/22 19:22	1
trans-1,3-Dichloropropene	0.511	U	4.91	0.511	ug/Kg			01/27/22 19:22	1
1,1,2-Trichloroethane	0.491	U	4.91	0.491	ug/Kg			01/27/22 19:22	1
Tetrachloroethene	0.727	U *	4.91	0.727	ug/Kg			01/27/22 19:22	1
1,3-Dichloropropene, Total	0.511	U	4.91	0.511	ug/Kg			01/27/22 19:22	1
1,2-Dibromoethane	0.295	U	4.91	0.295	ug/Kg			01/27/22 19:22	1
Monochlorobenzene	0.295	U	4.91	0.295	ug/Kg			01/27/22 19:22	1
Ethylbenzene	0.442	U	4.91	0.442	ug/Kg			01/27/22 19:22	1
Xylenes, Total	0.491	U	9.82	0.491	ug/Kg			01/27/22 19:22	1
Styrene	0.295	U	4.91	0.295	ug/Kg			01/27/22 19:22	1
Tribromomethane	0.501	U	4.91	0.501	ug/Kg			01/27/22 19:22	1
1,1,2,2-Tetrachloroethane	0.373	U	4.91	0.373	ug/Kg			01/27/22 19:22	1
1,4-Dichlorobenzene	0.314	U	4.91	0.314	ug/Kg			01/27/22 19:22	1
1,2-Dichlorobenzene	0.246	U	4.91	0.246	ug/Kg			01/27/22 19:22	1
1,2,4-Trichlorobenzene	0.953	U	4.91	0.953	ug/Kg			01/27/22 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*65 - 152*		*01/27/22 19:22*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/27/22 19:22*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 136*		*01/27/22 19:22*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*01/27/22 19:22*	*1*

Method: 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	0.00501	0.00251	mg/Kg		02/01/22 11:08	02/01/22 17:59	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 26-S-3-4-220124 **Lab Sample ID: 860-19624-1**
Date Collected: 01/24/22 12:10 **Matrix: Solid**
Date Received: 01/25/22 09:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*	*02/01/22 11:08*	*02/01/22 17:59*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.9	U	65.3	11.9	ug/Kg		02/04/22 15:17	02/08/22 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*79*	*	*30 - 164*	*02/04/22 15:17*	*02/08/22 17:16*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.3	U	166	17.3	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
bis (2-chloroisopropyl) ether	17.7	U	166	17.7	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Dinitrophenols	24.1	U	332	24.1	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
2,6-Dinitrotoluene	23.2	U	166	23.2	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Dichlorobenzidine, 3,3'-	15.3	U	332	15.3	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
4,6-Dinitro-2-methylphenol	12.7	U	332	12.7	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Anthracene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Di (2-ethylhexyl)phthalate	166	U	332	166	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Bis(2-chloroethyl)ether	15.1	U	166	15.1	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Chrysene	16.5	U	166	16.5	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Dibenz(a,h)anthracene	12.6	U	166	12.6	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Dimethyl phthalate	15.8	U	166	15.8	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Fluoranthene	14.6	U	166	14.6	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Fluorene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Hexachloroethane	17.2	U	166	17.2	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Isophorone	14.5	U	166	14.5	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
N-Nitrosopyrrolidine	14.0	U	166	14.0	ug/Kg		01/27/22 07:14	01/28/22 17:27	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 26-S-3-4-220124 **Lab Sample ID: 860-19624-1**
Date Collected: 01/24/22 12:10 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.8	U	166	15.8	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Pentachlorophenol	12.1	U	332	12.1	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Pyrene	14.6	U	166	14.6	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Naphthalene	15.6	U	166	15.6	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
2-Methylnaphthalene	45.0	U	166	45.0	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Nitrobenzene	18.4	U	166	18.4	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Benzidine	12.1	U	332	12.1	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Phenol	0.0149	U	0.332	0.0149	mg/Kg		01/27/22 07:14	01/28/22 17:27	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Atrazine	16.5	U	332	16.5	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	332	332	ug/Kg		01/27/22 07:14	01/28/22 17:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.665*	*U*	*mg/Kg*			*542-88-1*	*01/27/22 07:14*	*01/28/22 17:27*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*99*		*30 - 115*	*01/27/22 07:14*	*01/28/22 17:27*	*1*
2-Fluorophenol	*92*		*25 - 121*	*01/27/22 07:14*	*01/28/22 17:27*	*1*
2,4,6-Tribromophenol	*117*		*19 - 122*	*01/27/22 07:14*	*01/28/22 17:27*	*1*
Nitrobenzene-d5	*93*		*23 - 129*	*01/27/22 07:14*	*01/28/22 17:27*	*1*
Phenol-d5 (Surr)	*90*		*24 - 113*	*01/27/22 07:14*	*01/28/22 17:27*	*1*
p-Terphenyl-d14 (Surr)	*115*		*18 - 137*	*01/27/22 07:14*	*01/28/22 17:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 03:31	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 03:31	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*65 - 130*	*01/28/22 11:36*	*01/29/22 03:31*	*1*
o-Terphenyl (Surr)	*83*		*65 - 130*	*01/28/22 11:36*	*01/29/22 03:31*	*1*

Method: 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		01/26/22 08:34	01/26/22 16:41	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/26/22 08:34	01/26/22 16:41	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 26-S-3-4-220124 **Lab Sample ID: 860-19624-1**
Date Collected: 01/24/22 12:10 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Heptachlor epoxide	0.245	U	0.832	0.245	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/26/22 08:34	01/26/22 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*35 - 135*	*01/26/22 08:34*	*01/26/22 16:41*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*25 - 143*	*01/26/22 08:34*	*01/26/22 16:41*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:31	1
Aroclor 1221	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:31	1
Aroclor 1232	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:31	1
Aroclor 1242	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:31	1
Aroclor 1248	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:31	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/26/22 15:31	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/26/22 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*35 - 140*	*01/26/22 08:34*	*01/26/22 15:31*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*37 - 142*	*01/26/22 08:34*	*01/26/22 15:31*	*1*

Method: 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		02/05/22 11:25	02/10/22 08:25	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0415	U	0.193	0.0415	mg/Kg		02/05/22 11:25	02/10/22 08:25	1
2,4,6-Trinitrotoluene	0.0297	U	0.0966	0.0297	mg/Kg		02/05/22 11:25	02/10/22 08:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*02/05/22 11:25*	*02/10/22 08:25*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**666**		10.0	3.55	mg/Kg		01/25/22 11:00	01/25/22 18:01	1
Nitrate as N	**11.0**		1.00	0.108	mg/Kg		01/25/22 11:00	01/25/22 18:01	1
Fluoride	**3.01**	**J**	5.02	1.00	mg/Kg		01/25/22 11:00	01/25/22 18:01	1
Nitrite as N	**0.456**	**J**	1.00	0.0502	mg/Kg		01/25/22 11:00	01/25/22 18:01	1
Nitrate Nitrite as N	**11.5**		1.00	0.108	mg/Kg		01/25/22 11:00	01/25/22 18:01	1
Sulfate	**33.4**		10.0	4.34	mg/Kg		01/25/22 11:00	01/25/22 18:01	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.651**		0.496	0.0817	ug/Kg		02/03/22 17:49	02/08/22 18:37	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.214	U H	0.744	0.214	ug/Kg		02/10/22 11:04	02/16/22 11:56	1
Perfluorohexanesulfonic acid (PFHxS)	0.260	U H	0.744	0.260	ug/Kg		02/10/22 11:04	02/16/22 11:56	1
Perfluorooctanesulfonic acid (PFOS)	0.130	U H	0.744	0.130	ug/Kg		02/10/22 11:04	02/16/22 11:56	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 26-S-3-4-220124 **Lab Sample ID: 860-19624-1**
Date Collected: 01/24/22 12:10 **Matrix: Solid**
Date Received: 01/25/22 09:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	02/10/22 11:04	02/16/22 11:56	1
13C8 PFOS	105		70 - 130	02/10/22 11:04	02/16/22 11:56	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.147	U	1.85	0.147	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Arsenic	**4.39**		3.70	0.571	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Barium	**385**		3.70	0.321	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Beryllium	0.171	U	1.85	0.171	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Cadmium	0.107	U	1.85	0.107	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Chromium	**3.51**	**J**	3.70	0.251	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Copper	**1.52**	**J**	3.70	0.242	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Iron	**3100**		18.5	2.17	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Manganese	**22.4**		1.85	0.236	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Lead	**1.86**		1.85	0.179	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Antimony	**0.147**	**J**	1.85	0.110	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Selenium	0.459	U	1.85	0.459	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Thallium	0.221	U	1.85	0.221	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Uranium	**0.535**	**J**	0.926	0.0554	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Zinc	**9.41**		3.70	0.410	mg/Kg		01/30/22 14:01	02/01/22 21:25	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00688**	**J**	0.0179	0.00343	mg/Kg		01/28/22 08:00	01/28/22 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	28.6	U	57.7	28.6	ug/Kg		02/07/22 14:39	02/07/22 16:32	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:06	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.5**	**HF**			SU			02/04/22 14:13	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**503**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	**1.03**		0.211	0.235	1.00	0.142	pCi/g	02/07/22 10:12	02/28/22 10:21	1
Radium-228	**0.313**		0.210	0.212		0.279	pCi/g	02/07/22 10:12	02/28/22 10:21	1
Combined Radium 226 + 228	**1.34**		0.298	0.316		0.279	pCi/g	02/07/22 10:12	02/28/22 10:21	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 129-S-3-4-220124 **Lab Sample ID: 860-19624-2**
Date Collected: 01/24/22 12:40 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.660	U	4.52	0.660	ug/Kg			01/27/22 19:48	1
Chloromethane	1.08	U	4.52	1.08	ug/Kg			01/27/22 19:48	1
Vinyl chloride	0.542	U	4.52	0.542	ug/Kg			01/27/22 19:48	1
Bromomethane	0.995	U	4.52	0.995	ug/Kg			01/27/22 19:48	1
Trichlorofluoromethane	0.452	U	4.52	0.452	ug/Kg			01/27/22 19:48	1
Acrolein	7.78	U	45.2	7.78	ug/Kg			01/27/22 19:48	1
1,1-Dichloroethene	0.452	U	4.52	0.452	ug/Kg			01/27/22 19:48	1
trans-1,2-Dichloroethene	0.452	U	4.52	0.452	ug/Kg			01/27/22 19:48	1
Methyl tert-butyl ether	0.552	U	4.52	0.552	ug/Kg			01/27/22 19:48	1
1,3-Dichlorobenzene	0.280	U	4.52	0.280	ug/Kg			01/27/22 19:48	1
Methylene Chloride	4.52	U	22.6	4.52	ug/Kg			01/27/22 19:48	1
Acrylonitrile	3.25	U	45.2	3.25	ug/Kg			01/27/22 19:48	1
cis-1,2-Dichloroethene	0.515	U	4.52	0.515	ug/Kg			01/27/22 19:48	1
Carbon tetrachloride	0.461	U	4.52	0.461	ug/Kg			01/27/22 19:48	1
Benzene	0.570	U	4.52	0.570	ug/Kg			01/27/22 19:48	1
1,2-Dichloroethane	0.470	U	4.52	0.470	ug/Kg			01/27/22 19:48	1
Trichloroethene	0.253	U	4.52	0.253	ug/Kg			01/27/22 19:48	1
1,1,1-Trichloroethane	0.452	U	4.52	0.452	ug/Kg			01/27/22 19:48	1
1,1-Dichloroethane	0.533	U	4.52	0.533	ug/Kg			01/27/22 19:48	1
1,2-Dichloropropane	0.452	U	4.52	0.452	ug/Kg			01/27/22 19:48	1
1,4-Dioxane	17.2	U	90.4	17.2	ug/Kg			01/27/22 19:48	1
Chloroform	0.787	U	4.52	0.787	ug/Kg			01/27/22 19:48	1
Bromodichloromethane	0.181	U	4.52	0.181	ug/Kg			01/27/22 19:48	1
1,1-Dichloropropene	0.470	U	4.52	0.470	ug/Kg			01/27/22 19:48	1
cis-1,3-Dichloropropene	0.407	U	4.52	0.407	ug/Kg			01/27/22 19:48	1
Toluene	0.814	U	4.52	0.814	ug/Kg			01/27/22 19:48	1
trans-1,3-Dichloropropene	0.470	U	4.52	0.470	ug/Kg			01/27/22 19:48	1
1,1,2-Trichloroethane	0.452	U	4.52	0.452	ug/Kg			01/27/22 19:48	1
Tetrachloroethene	0.669	U *	4.52	0.669	ug/Kg			01/27/22 19:48	1
1,3-Dichloropropene, Total	0.470	U	4.52	0.470	ug/Kg			01/27/22 19:48	1
1,2-Dibromoethane	0.271	U	4.52	0.271	ug/Kg			01/27/22 19:48	1
Monochlorobenzene	0.271	U	4.52	0.271	ug/Kg			01/27/22 19:48	1
Ethylbenzene	0.407	U	4.52	0.407	ug/Kg			01/27/22 19:48	1
Xylenes, Total	0.452	U	9.04	0.452	ug/Kg			01/27/22 19:48	1
Styrene	**0.474**	**J**	4.52	0.271	ug/Kg			01/27/22 19:48	1
Tribromomethane	0.461	U	4.52	0.461	ug/Kg			01/27/22 19:48	1
1,1,2,2-Tetrachloroethane	0.344	U	4.52	0.344	ug/Kg			01/27/22 19:48	1
1,4-Dichlorobenzene	0.289	U	4.52	0.289	ug/Kg			01/27/22 19:48	1
1,2-Dichlorobenzene	0.226	U	4.52	0.226	ug/Kg			01/27/22 19:48	1
1,2,4-Trichlorobenzene	0.877	U	4.52	0.877	ug/Kg			01/27/22 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*65 - 152*		*01/27/22 19:48*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/27/22 19:48*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 136*		*01/27/22 19:48*	*1*
4-Bromofluorobenzene (Surr)	*112*		*61 - 142*		*01/27/22 19:48*	*1*

Method: 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	0.00500	0.00250	mg/Kg		02/01/22 11:08	02/01/22 18:21	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 129-S-3-4-220124 **Lab Sample ID: 860-19624-2**
Date Collected: 01/24/22 12:40 **Matrix: Solid**
Date Received: 01/25/22 09:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*94*		*63 - 144*	*02/01/22 11:08*	*02/01/22 18:21*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.9	U	65.6	11.9	ug/Kg		02/04/22 15:17	02/08/22 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*81*	*	*30 - 164*	*02/04/22 15:17*	*02/08/22 17:42*	*1*

Method: 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	166	17.4	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
1,2,4,5-Tetrachlorobenzene	16.5	U	166	16.5	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
1-Methylnaphthalene	26.7	U	166	26.7	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
bis (2-chloroisopropyl) ether	17.8	U	166	17.8	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
2,6-Dinitrotoluene	23.3	U	166	23.3	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Anthracene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Acenaphthylene	14.8	U	166	14.8	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Benzo[b]fluoranthene	12.6	U	166	12.6	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Chrysene	16.5	U	166	16.5	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Dimethyl phthalate	15.9	U	166	15.9	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Fluorene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Hexachloroethane	17.3	U	166	17.3	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Isophorone	14.5	U	166	14.5	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		01/27/22 07:14	01/28/22 17:47	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 129-S-3-4-220124 **Lab Sample ID: 860-19624-2**
Date Collected: 01/24/22 12:40 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Phenanthrene	16.6	U	166	16.6	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Pyrene	14.6	U	166	14.6	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Naphthalene	15.6	U	166	15.6	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Nitrobenzene	18.5	U	166	18.5	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		01/27/22 07:14	01/28/22 17:47	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/27/22 07:14	01/28/22 17:47	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*	*01/27/22 07:14*	*01/28/22 17:47*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*30 - 115*	*01/27/22 07:14*	*01/28/22 17:47*	*1*
2-Fluorophenol	*72*		*25 - 121*	*01/27/22 07:14*	*01/28/22 17:47*	*1*
2,4,6-Tribromophenol	*85*		*19 - 122*	*01/27/22 07:14*	*01/28/22 17:47*	*1*
Nitrobenzene-d5	*73*		*23 - 129*	*01/27/22 07:14*	*01/28/22 17:47*	*1*
Phenol-d5 (Surr)	*71*		*24 - 113*	*01/27/22 07:14*	*01/28/22 17:47*	*1*
p-Terphenyl-d14 (Surr)	*88*		*18 - 137*	*01/27/22 07:14*	*01/28/22 17:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.1	21.1	mg/Kg		01/28/22 11:36	01/29/22 03:51	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		01/28/22 11:36	01/29/22 03:51	1
OII Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		01/28/22 11:36	01/29/22 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*65 - 130*	*01/28/22 11:36*	*01/29/22 03:51*	*1*
o-Terphenyl (Surr)	*83*		*65 - 130*	*01/28/22 11:36*	*01/29/22 03:51*	*1*

Method: 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		01/26/22 08:34	01/26/22 16:57	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Endosulfan I	0.201	U	0.832	0.201	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/26/22 08:34	01/26/22 16:57	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 129-S-3-4-220124 **Lab Sample ID: 860-19624-2**
Date Collected: 01/24/22 12:40 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Heptachlor epoxide	**0.274**	**J**	0.832	0.244	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/26/22 08:34	01/26/22 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*35 - 135*	*01/26/22 08:34*	*01/26/22 16:57*	*1*
DCB Decachlorobiphenyl (Surr)	*109*		*25 - 143*	*01/26/22 08:34*	*01/26/22 16:57*	*1*

Method: 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		01/26/22 08:34	01/26/22 15:41	1
Aroclor 1221	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/26/22 15:41	1
Aroclor 1232	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/26/22 15:41	1
Aroclor 1242	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/26/22 15:41	1
Aroclor 1248	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/26/22 15:41	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/26/22 15:41	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/26/22 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*56*		*35 - 140*	*01/26/22 08:34*	*01/26/22 15:41*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 142*	*01/26/22 08:34*	*01/26/22 15:41*	*1*

Method: 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	0.0954	0.0217	mg/Kg		02/05/22 11:25	02/10/22 08:48	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0410	U	0.191	0.0410	mg/Kg		02/05/22 11:25	02/10/22 08:48	1
2,4,6-Trinitrotoluene	0.0293	U	0.0954	0.0293	mg/Kg		02/05/22 11:25	02/10/22 08:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*107*		*83 - 122*	*02/05/22 11:25*	*02/10/22 08:48*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.7**		10.2	3.60	mg/Kg		01/25/22 11:00	01/25/22 18:13	1
Nitrate as N	**15.9**		1.02	0.110	mg/Kg		01/25/22 11:00	01/25/22 18:13	1
Fluoride	**3.41**	**J**	5.09	1.02	mg/Kg		01/25/22 11:00	01/25/22 18:13	1
Nitrite as N	**0.593**	**J**	1.02	0.0509	mg/Kg		01/25/22 11:00	01/25/22 18:13	1
Nitrate Nitrite as N	**16.5**		1.02	0.110	mg/Kg		01/25/22 11:00	01/25/22 18:13	1
Sulfate	**50.8**		10.2	4.40	mg/Kg		01/25/22 11:00	01/25/22 18:13	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0767	U	0.465	0.0767	ug/Kg		02/03/22 17:49	02/08/22 18:42	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.222	U H	0.773	0.222	ug/Kg		02/10/22 11:04	02/16/22 12:05	1
Perfluorohexanesulfonic acid (PFHxS)	0.271	U H	0.773	0.271	ug/Kg		02/10/22 11:04	02/16/22 12:05	1
Perfluorooctanesulfonic acid (PFOS)	0.135	U H	0.773	0.135	ug/Kg		02/10/22 11:04	02/16/22 12:05	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 129-S-3-4-220124 Lab Sample ID: 860-19624-2

Date Collected: 01/24/22 12:40 **Matrix: Solid**
Date Received: 01/25/22 09:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*103*		*57 - 153*	*02/10/22 11:04*	*02/16/22 12:05*	*1*
13C8 PFOS	*106*		*70 - 130*	*02/10/22 11:04*	*02/16/22 12:05*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.150	U	1.89	0.150	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Arsenic	**2.53**	**J**	3.77	0.582	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Barium	**242**		3.77	0.327	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Beryllium	**0.192**	**J**	1.89	0.175	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Cadmium	0.109	U	1.89	0.109	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Chromium	**4.64**		3.77	0.256	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Copper	**1.76**	**J**	3.77	0.246	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Iron	**4190**		18.9	2.21	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Manganese	**39.6**		1.89	0.240	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Lead	**2.59**		1.89	0.183	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Antimony	**0.175**	**J**	1.89	0.112	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Selenium	0.468	U	1.89	0.468	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Thallium	0.225	U	1.89	0.225	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Uranium	**0.374**	**J**	0.943	0.0564	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Zinc	**11.5**		3.77	0.418	mg/Kg		01/30/22 14:01	02/01/22 21:29	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00669**	**J**	0.0169	0.00326	mg/Kg		01/28/22 08:00	01/28/22 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	30.8	U	62.0	30.8	ug/Kg		02/07/22 14:39	02/07/22 16:33	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:09	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.9**	**HF**			SU			02/04/22 14:13	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**201**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	**0.942**		0.143	0.174	1.00	0.0398	pCi/g	02/07/22 10:12	02/28/22 10:23	1
Radium-228	0.144	U	0.220	0.220		0.274	pCi/g	02/07/22 10:12	02/28/22 10:23	1
Combined Radium 226 + 228	**1.09**		0.262	0.280		0.274	pCi/g	02/07/22 10:12	02/28/22 10:23	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(65-152)	(65-139)	(50-136)	(61-142)
860-19624-1	Cell17-Square 26-S-3-4-220124	97	94	94	111
860-19624-2	Cell17-Square 129-S-3-4-220124	98	94	95	112
LCS 560-192640/3	Lab Control Sample	94	94	96	116
LCSD 560-192640/4	Lab Control Sample Dup	94	95	96	117
MB 560-192640/7	Method Blank	92	95	93	111

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCA
Lab Sample ID	Client Sample ID	(63-144)
860-19624-1	Cell17-Square 26-S-3-4-220124	91
860-19624-2	Cell17-Square 129-S-3-4-220124	94
LCS 860-39864/11	Lab Control Sample	90
LCSD 860-39864/12	Lab Control Sample Dup	92
MB 860-39864/16	Method Blank	91

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19624-1	Cell17-Square 26-S-3-4-220124	79 *
860-19624-2	Cell17-Square 129-S-3-4-220124	81 *
LCS 400-565562/2-A	Lab Control Sample	95 *
MB 400-565562/1-A	Method Blank	80

Surrogate Legend

TPP = Triphenylphosphate

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(30-115)	(25-121)	(19-122)	(23-129)	(24-113)	(18-137)
860-19624-1	Cell17-Square 26-S-3-4-220124	99	92	117	93	90	115
860-19624-2	Cell17-Square 129-S-3-4-220124	78	72	85	73	71	88

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(65-130)	(65-130)										
860-19624-1	Cell17-Square 26-S-3-4-220124	97	83										
860-19624-2	Cell17-Square 129-S-3-4-220124	97	83										
LCS 860-39365/2-A	Lab Control Sample	98	89										
LCSD 860-39365/3-A	Lab Control Sample Dup	96	87										
MB 860-39365/1-A	Method Blank	96	83										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		TCX1	DCB1										
Lab Sample ID	Client Sample ID	(35-135)	(25-143)										
860-19624-1	Cell17-Square 26-S-3-4-220124	80	103										
860-19624-2	Cell17-Square 129-S-3-4-220124	71	109										
860-19624-2 MS	Cell17-Square 129-S-3-4-220124	80	89										
860-19624-2 MSD	Cell17-Square 129-S-3-4-220124	78	106										
LCS 860-38890/2-A	Lab Control Sample	88	107										
LCSD 860-38890/3-A	Lab Control Sample Dup	86	107										
MB 860-38890/1-A	Method Blank	95	115										

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)											
		TCX1	DCB1										
Lab Sample ID	Client Sample ID	(35-140)	(37-142)										
860-19624-1	Cell17-Square 26-S-3-4-220124	64	88										
860-19624-2	Cell17-Square 129-S-3-4-220124	56	95										
LCS 860-38890/4-A	Lab Control Sample	72	86										
LCSD 860-38890/5-A	Lab Control Sample Dup	67	87										
MB 860-38890/1-A	Method Blank	80	91										

Surrogate Legend

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

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)									
860-19624-1	Cell17-Square 26-S-3-4-220124	106									
860-19624-2	Cell17-Square 129-S-3-4-220124	107									
860-19624-2 DU	Cell17-Square 129-S-3-4-220124	108									
860-19624-2 TRL	Cell17-Square 129-S-3-4-220124	108									
LCS 280-565272/2-A	Lab Control Sample	99									
MB 280-565272/1-A	Method Blank	105									

Surrogate Legend
12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)								
860-19624-1	Cell17-Square 26-S-3-4-220124	103	105								
860-19624-2	Cell17-Square 129-S-3-4-220124	103	106								
DLCK 280-556129/13	Lab Control Sample	98	105								
LCS 280-565681/2-A	Lab Control Sample	104	108								
MB 280-565681/1-A	Method Blank	104	107								

Surrogate Legend
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS

QC Sample Results

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

Job ID: 860-19624-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192640/7
Matrix: Solid
Analysis Batch: 192640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/27/22 17:15	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/27/22 17:15	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/27/22 17:15	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/27/22 17:15	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/27/22 17:15	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/27/22 17:15	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/27/22 17:15	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/27/22 17:15	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/27/22 17:15	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/27/22 17:15	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/27/22 17:15	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/27/22 17:15	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/27/22 17:15	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/27/22 17:15	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/27/22 17:15	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/27/22 17:15	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/27/22 17:15	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/27/22 17:15	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/27/22 17:15	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/27/22 17:15	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/27/22 17:15	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/27/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 152*		*01/27/22 17:15*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 17:15*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 17:15*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*01/27/22 17:15*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 560-192640/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	35.80		ug/Kg		89	13 - 130
Chloromethane	40.0	29.10		ug/Kg		73	61 - 137
Vinyl chloride	40.0	34.22		ug/Kg		86	65 - 139
Bromomethane	40.0	32.15		ug/Kg		80	57 - 155
Trichlorofluoromethane	40.0	32.83		ug/Kg		82	68 - 146
Acrolein	395	383.2		ug/Kg		97	20 - 150
1,1-Dichloroethene	40.0	35.68		ug/Kg		89	70 - 130
trans-1,2-Dichloroethene	40.0	35.03		ug/Kg		88	70 - 132
Methyl tert-butyl ether	40.0	37.20		ug/Kg		93	70 - 130
1,3-Dichlorobenzene	40.0	35.27		ug/Kg		88	70 - 130
Methylene Chloride	40.0	33.56		ug/Kg		84	61 - 150
Acrylonitrile	400	374.6		ug/Kg		94	66 - 137
cis-1,2-Dichloroethene	40.0	36.33		ug/Kg		91	70 - 130
Carbon tetrachloride	40.0	31.85		ug/Kg		80	70 - 136
Benzene	40.0	35.70		ug/Kg		89	70 - 131
1,2-Dichloroethane	40.0	31.23		ug/Kg		78	70 - 130
Trichloroethene	40.0	34.26		ug/Kg		86	70 - 130
1,1,1-Trichloroethane	40.0	31.86		ug/Kg		80	70 - 132
1,1-Dichloroethane	40.0	34.37		ug/Kg		86	70 - 130
1,2-Dichloropropane	40.0	36.83		ug/Kg		92	70 - 130
1,4-Dioxane	800	833.9		ug/Kg		104	10 - 150
Chloroform	40.0	32.99		ug/Kg		82	70 - 130
Bromodichloromethane	40.0	34.83		ug/Kg		87	70 - 130
1,1-Dichloropropene	40.0	37.02		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	32.77		ug/Kg		82	70 - 130
Toluene	40.0	32.19		ug/Kg		80	70 - 130
trans-1,3-Dichloropropene	40.0	35.13		ug/Kg		88	70 - 131
1,1,2-Trichloroethane	40.0	33.40		ug/Kg		84	70 - 130
Tetrachloroethene	40.0	27.27	*	ug/Kg		68	70 - 130
1,3-Dichloropropene, Total	80.0	67.90		ug/Kg		85	
1,2-Dibromoethane	40.0	32.91		ug/Kg		82	70 - 130
Monochlorobenzene	40.0	31.49		ug/Kg		79	70 - 130
Ethylbenzene	40.0	35.33		ug/Kg		88	70 - 130
Xylenes, Total	80.0	73.91		ug/Kg		92	70 - 130
Styrene	40.0	36.75		ug/Kg		92	70 - 130
Tribromomethane	40.0	29.36		ug/Kg		73	59 - 137
1,1,2,2-Tetrachloroethane	40.0	38.53		ug/Kg		96	70 - 130
1,4-Dichlorobenzene	40.0	33.92		ug/Kg		85	70 - 130
1,2-Dichlorobenzene	40.0	34.72		ug/Kg		87	70 - 130
1,2,4-Trichlorobenzene	40.0	36.85		ug/Kg		92	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*94*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 560-192640/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192640

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			40.0	40.95		ug/Kg		102	13 - 130	13	30.0
Chloromethane			40.0	32.52		ug/Kg		81	61 - 137	11	30.0
Vinyl chloride			40.0	37.63		ug/Kg		94	65 - 139	9	30.0
Bromomethane			40.0	36.48		ug/Kg		91	57 - 155	13	30.0
Trichlorofluoromethane			40.0	37.52		ug/Kg		94	68 - 146	13	30.0
Acrolein			395	450.0		ug/Kg		114	20 - 150	16	30.0
1,1-Dichloroethene			40.0	40.79		ug/Kg		102	70 - 130	13	30.0
trans-1,2-Dichloroethene			40.0	40.86		ug/Kg		102	70 - 132	15	30.0
Methyl tert-butyl ether			40.0	44.27		ug/Kg		111	70 - 130	17	30.0
1,3-Dichlorobenzene			40.0	39.74		ug/Kg		99	70 - 130	12	30.0
Methylene Chloride			40.0	38.56		ug/Kg		96	61 - 150	14	30.0
Acrylonitrile			400	428.6		ug/Kg		107	66 - 137	13	30.0
cis-1,2-Dichloroethene			40.0	42.79		ug/Kg		107	70 - 130	16	30.0
Carbon tetrachloride			40.0	38.15		ug/Kg		95	70 - 136	18	30.0
Benzene			40.0	41.87		ug/Kg		105	70 - 131	16	30.0
1,2-Dichloroethane			40.0	36.23		ug/Kg		91	70 - 130	15	30.0
Trichloroethene			40.0	39.85		ug/Kg		100	70 - 130	15	30.0
1,1,1-Trichloroethane			40.0	38.48		ug/Kg		96	70 - 132	19	30.0
1,1-Dichloroethane			40.0	40.81		ug/Kg		102	70 - 130	17	30.0
1,2-Dichloropropane			40.0	41.90		ug/Kg		105	70 - 130	13	30.0
1,4-Dioxane			800	907.5		ug/Kg		113	10 - 150	8	30.0
Chloroform			40.0	38.61		ug/Kg		97	70 - 130	16	30.0
Bromodichloromethane			40.0	41.06		ug/Kg		103	70 - 130	16	30.0
1,1-Dichloropropene			40.0	43.32		ug/Kg		108	70 - 130	16	30.0
cis-1,3-Dichloropropene			40.0	38.69		ug/Kg		97	70 - 130	17	30.0
Toluene			40.0	37.88		ug/Kg		95	70 - 130	16	30.0
trans-1,3-Dichloropropene			40.0	40.99		ug/Kg		102	70 - 131	15	30.0
1,1,2-Trichloroethane			40.0	38.17		ug/Kg		95	70 - 130	13	30.0
Tetrachloroethene			40.0	33.02		ug/Kg		83	70 - 130	19	30.0
1,3-Dichloropropene, Total			80.0	79.68		ug/Kg		100		16	30
1,2-Dibromoethane			40.0	37.63		ug/Kg		94	70 - 130	13	30.0
Monochlorobenzene			40.0	36.20		ug/Kg		90	70 - 130	14	30.0
Ethylbenzene			40.0	40.69		ug/Kg		102	70 - 130	14	30.0
Xylenes, Total			80.0	85.81		ug/Kg		107	70 - 130	15	30.0
Styrene			40.0	41.41		ug/Kg		104	70 - 130	12	30.0
Tribromomethane			40.0	33.15		ug/Kg		83	59 - 137	12	30.0
1,1,2,2-Tetrachloroethane			40.0	44.69		ug/Kg		112	70 - 130	15	30.0
1,4-Dichlorobenzene			40.0	38.17		ug/Kg		95	70 - 130	12	30.0
1,2-Dichlorobenzene			40.0	40.46		ug/Kg		101	70 - 130	15	30.0
1,2,4-Trichlorobenzene			40.0	42.88		ug/Kg		107	68 - 140	15	30.0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*117*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39864/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

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			02/01/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*		*02/01/22 17:15*	*1*

Lab Sample ID: LCS 860-39864/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.04692		mg/Kg		94	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*

Lab Sample ID: LCSD 860-39864/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.04791		mg/Kg		96	65 - 135	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-565562/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565810 — **Prep Batch: 565562**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/04/22 15:17	02/08/22 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*80*		*30 - 164*	*02/04/22 15:17*	*02/08/22 14:41*	*1*

Lab Sample ID: LCS 400-565562/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565810 — **Prep Batch: 565562**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	272.6		ug/Kg		82	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*95*	*	*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-39365/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39342 **Prep Batch: 39365**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 01:53	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 01:53	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 01:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*65 - 130*	*01/28/22 11:36*	*01/29/22 01:53*	*1*
o-Terphenyl (Surr)	*83*		*65 - 130*	*01/28/22 11:36*	*01/29/22 01:53*	*1*

Lab Sample ID: LCS 860-39365/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39342 **Prep Batch: 39365**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	994	1063		mg/Kg		107	70 - 135
Diesel Range Organics (Over C10-C28)	996	1009		mg/Kg		101	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*98*		*65 - 130*
o-Terphenyl (Surr)	*89*		*65 - 130*

Lab Sample ID: LCSD 860-39365/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39342 **Prep Batch: 39365**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	994	1043		mg/Kg		105	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	996	959.8		mg/Kg		96	70 - 135	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*65 - 130*
o-Terphenyl (Surr)	*87*		*65 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/26/22 08:34	01/26/22 14:18	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/26/22 08:34	01/26/22 14:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*35 - 135*	*01/26/22 08:34*	*01/26/22 14:18*	*1*
DCB Decachlorobiphenyl (Surr)	*115*		*25 - 143*	*01/26/22 08:34*	*01/26/22 14:18*	*1*

Lab Sample ID: LCS 860-38890/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	16.7	19.14		ug/Kg		115	13 - 192
Aldrin	16.7	18.43		ug/Kg		111	30 - 152
Hexachlorocyclohexane, alpha-	16.7	17.42		ug/Kg		105	29 - 160
Hexachlorocyclohexane, beta-	16.7	19.15		ug/Kg		115	30 - 155
Hexachlorocyclohexane, delta-	16.7	17.69		ug/Kg		106	20 - 161
Dieldrin	16.7	19.24		ug/Kg		115	33 - 153
Endosulfan I	16.7	18.57		ug/Kg		111	30 - 151
Endosulfan II	16.7	17.20		ug/Kg		103	27 - 153
Endosulfan sulfate	16.7	18.75		ug/Kg		112	15 - 170
Endrin	16.7	20.31		ug/Kg		122	25 - 162
Endrin aldehyde	16.7	18.29		ug/Kg		110	49 - 117
Hexachlorocyclohexane, gamma-	16.7	18.31		ug/Kg		110	30 - 158
Heptachlor	16.7	18.86		ug/Kg		113	29 - 163
Heptachlor epoxide	16.7	18.26		ug/Kg		110	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

Lab Sample ID: LCSD 860-38890/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT	16.7	18.62		ug/Kg		112	13 - 192	3	25

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QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-38890/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.7	18.12		ug/Kg		109	30 - 152	2	25
Hexachlorocyclohexane, alpha-			16.7	17.11		ug/Kg		103	29 - 160	2	25
Hexachlorocyclohexane, beta-			16.7	18.75		ug/Kg		113	30 - 155	2	25
Hexachlorocyclohexane, delta-			16.7	17.26		ug/Kg		104	20 - 161	2	25
Dieldrin			16.7	18.81		ug/Kg		113	33 - 153	2	25
Endosulfan I			16.7	18.15		ug/Kg		109	30 - 151	2	25
Endosulfan II			16.7	16.84		ug/Kg		101	27 - 153	2	25
Endosulfan sulfate			16.7	18.21		ug/Kg		109	15 - 170	3	25
Endrin			16.7	19.79		ug/Kg		119	25 - 162	3	25
Endrin aldehyde			16.7	17.90		ug/Kg		107	49 - 117	2	25
Hexachlorocyclohexane, gamma-			16.7	17.85		ug/Kg		107	30 - 158	3	25
Heptachlor			16.7	18.53		ug/Kg		111	29 - 163	2	25
Heptachlor epoxide			16.7	17.76		ug/Kg		107	30 - 150	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

Lab Sample ID: 860-19624-2 MS **Client Sample ID: Cell17-Square 129-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	0.253	U	16.6	19.76		ug/Kg		119	13 - 192
Aldrin	0.362	U	16.6	17.51		ug/Kg		105	30 - 152
Hexachlorocyclohexane, alpha-	0.679	U	16.6	16.34		ug/Kg		98	29 - 160
Hexachlorocyclohexane, beta-	0.473	U	16.6	18.79		ug/Kg		113	30 - 155
Hexachlorocyclohexane, delta-	0.832	U	16.6	17.27		ug/Kg		104	20 - 161
Dieldrin	0.169	U	16.6	19.24		ug/Kg		116	33 - 153
Endosulfan I	0.201	U	16.6	18.38		ug/Kg		110	30 - 151
Endosulfan II	0.372	U	16.6	17.64		ug/Kg		106	27 - 153
Endosulfan sulfate	0.275	U	16.6	18.79		ug/Kg		113	15 - 170
Endrin	0.290	U	16.6	20.49		ug/Kg		123	25 - 162
Endrin aldehyde	0.247	U	16.6	19.59	N1	ug/Kg		118	49 - 117
Hexachlorocyclohexane, gamma-	0.438	U	16.6	17.40		ug/Kg		105	30 - 158
Heptachlor	0.561	U	16.6	17.89		ug/Kg		108	29 - 163
Heptachlor epoxide	0.274	J	16.6	17.90		ug/Kg		106	30 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*89*		*25 - 143*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 860-19624-2 MSD **Client Sample ID: Cell17-Square 129-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT	0.253	U	16.7	18.23		ug/Kg		110	13 - 192	8	25
Aldrin	0.362	U	16.7	17.26		ug/Kg		104	30 - 152	1	25
Hexachlorocyclohexane, alpha-	0.679	U	16.7	16.33		ug/Kg		98	29 - 160	0	25
Hexachlorocyclohexane, beta-	0.473	U	16.7	18.49		ug/Kg		111	30 - 155	2	25
Hexachlorocyclohexane, delta-	0.832	U	16.7	17.21		ug/Kg		103	20 - 161	0	25
Dieldrin	0.169	U	16.7	18.84		ug/Kg		113	33 - 153	2	25
Endosulfan I	0.201	U	16.7	17.98		ug/Kg		108	30 - 151	2	25
Endosulfan II	0.372	U	16.7	16.26		ug/Kg		98	27 - 153	8	25
Endosulfan sulfate	0.275	U	16.7	14.54		ug/Kg		87	15 - 170	25	25
Endrin	0.290	U	16.7	17.76		ug/Kg		107	25 - 162	14	25
Endrin aldehyde	0.247	U	16.7	17.57		ug/Kg		106	49 - 117	11	25
Hexachlorocyclohexane, gamma-	0.438	U	16.7	17.09		ug/Kg		103	30 - 158	2	25
Heptachlor	0.561	U	16.7	17.64		ug/Kg		106	29 - 163	1	25
Heptachlor epoxide	0.274	J	16.7	17.48		ug/Kg		103	30 - 150	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*106*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*35 - 140*	*01/26/22 08:34*	*01/26/22 14:24*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 142*	*01/26/22 08:34*	*01/26/22 14:24*	*1*

Lab Sample ID: LCS 860-38890/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			0.167	0.1416		mg/Kg		85	27 - 121		
Aroclor 1260			0.167	0.1484		mg/Kg		89	27 - 139		

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-38890/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	72		35 - 140
DCB Decachlorobiphenyl (Surr)	86		37 - 142

Lab Sample ID: LCSD 860-38890/5-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1363		mg/Kg		82	27 - 121	4	20
Aroclor 1260			0.167	0.1452		mg/Kg		87	27 - 139	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	67		35 - 140
DCB Decachlorobiphenyl (Surr)	87		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565272/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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		02/05/22 11:25	02/10/22 06:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 06:07	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/05/22 11:25	02/10/22 06:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	02/05/22 11:25	02/10/22 06:07	1

Lab Sample ID: LCS 280-565272/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.9312		mg/Kg		93	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9739		mg/Kg		97	80 - 124
2,4,6-Trinitrotoluene			1.00	0.9953		mg/Kg		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	99		83 - 122

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 860-19624-2 DU **Client Sample ID: Cell17-Square 129-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0217	U		0.0223	U	mg/Kg				NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0410	U		0.0422	U	mg/Kg				NC	20
2,4,6-Trinitrotoluene	0.0293	U		0.0302	U	mg/Kg				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
1,2-Dinitrobenzene	*108*		*83 - 122*

Lab Sample ID: 860-19624-2 TRL **Client Sample ID: Cell17-Square 129-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

Analyte	Sample Result	Sample Qualifier		TRL Result	TRL Qualifier	Unit	D			RSD	RSD Limit
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0217	U		0.0227	U	mg/Kg				NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0410	U		0.0429	U	mg/Kg				NC	20
2,4,6-Trinitrotoluene	0.0293	U		0.0306	U	mg/Kg				NC	20

Surrogate	*TRL %Recovery*	*TRL Qualifier*	*Limits*
1,2-Dinitrobenzene	*108*		*83 - 122*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-38773/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38740 **Prep Batch: 38773**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Nitrite as N	0.0500	U	1.00	0.0500	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Nitrate Nitrite as N	0.108	U	1.00	0.108	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/25/22 11:00	01/25/22 11:46	1

Lab Sample ID: LCS 860-38773/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38740 **Prep Batch: 38773**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			100	106.3		mg/Kg		106	80 - 120		
Nitrate as N			100	103.4		mg/Kg		103	80 - 120		
Fluoride			100	106.1		mg/Kg		106	80 - 120		
Nitrite as N			50.0	47.19		mg/Kg		94	80 - 120		
Nitrate Nitrite as N			150	150.6		mg/Kg		100	80 - 120		
Sulfate			100	104.4		mg/Kg		104	80 - 120		

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-38773/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38740 **Prep Batch: 38773**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	108.0		mg/Kg		108	80 - 120	2	20
Nitrate as N			100	102.5		mg/Kg		103	80 - 120	1	20
Fluoride			100	105.4		mg/Kg		105	80 - 120	1	20
Nitrite as N			50.0	46.96		mg/Kg		94	80 - 120	0	20
Nitrate Nitrite as N			150	149.5		mg/Kg		100	80 - 120	1	20
Sulfate			100	103.9		mg/Kg		104	80 - 120	0	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 564802

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.0500	0.04711	J	ug/L		94	70 - 130		

Lab Sample ID: MB 280-565161/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565540 **Prep Batch: 565161**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:01	1

Lab Sample ID: LCS 280-565161/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565540 **Prep Batch: 565161**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.500	0.5047		ug/Kg		101	80 - 120		

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 556129

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorooctanoic acid (PFOA)			0.500	0.490	U	ug/L		94	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)			0.455	0.4417	J	ug/L		97	70 - 130		
Perfluorooctanesulfonic acid (PFOS)			0.464	0.665	U	ug/L		95	70 - 130		

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

QC Sample Results

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

Job ID: 860-19624-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 280-565681/1-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565681

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/10/22 11:04	02/16/22 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/10/22 11:04*	*02/16/22 11:21*	*1*
13C8 PFOS	*107*		*70 - 130*	*02/10/22 11:04*	*02/16/22 11:21*	*1*

Lab Sample ID: LCS 280-565681/2-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	20.31		ug/Kg		102	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	18.45		ug/Kg		101	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.74		ug/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*108*		*70 - 130*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-39512/1-A
Matrix: Solid
Analysis Batch: 39615

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39512

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0153	U	0.192	0.0153	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Arsenic	0.0593	U	0.385	0.0593	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Barium	0.0334	U	0.385	0.0334	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Beryllium	0.0178	U	0.192	0.0178	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Cadmium	0.0112	U	0.192	0.0112	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Chromium	0.0261	U	0.385	0.0261	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Copper	0.0251	U	0.385	0.0251	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Iron	0.225	U	1.92	0.225	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Manganese	0.0245	U	0.192	0.0245	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Lead	0.0186	U	0.192	0.0186	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Antimony	0.0114	U	0.192	0.0114	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Selenium	0.0477	U	0.192	0.0477	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Thallium	0.0230	U	0.192	0.0230	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Uranium	0.00575	U	0.0962	0.00575	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Zinc	0.0426	U	0.385	0.0426	mg/Kg		01/30/22 14:00	01/31/22 11:47	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-39512/2-A
Matrix: Solid
Analysis Batch: 39615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39512

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	4.81	4.643		mg/Kg		97	80 - 120
Arsenic	9.62	9.906		mg/Kg		103	80 - 120
Barium	9.62	9.722		mg/Kg		101	80 - 120
Beryllium	9.62	9.485		mg/Kg		99	80 - 120
Cadmium	9.62	9.701		mg/Kg		101	80 - 120
Chromium	9.62	9.581		mg/Kg		100	80 - 120
Copper	9.62	9.468		mg/Kg		98	80 - 120
Iron	48.1	47.68		mg/Kg		99	80 - 120
Manganese	9.62	9.619		mg/Kg		100	80 - 120
Lead	9.62	9.385		mg/Kg		98	80 - 120
Antimony	9.62	9.135		mg/Kg		95	80 - 120
Selenium	9.62	9.890		mg/Kg		103	80 - 120
Thallium	9.62	9.440		mg/Kg		98	80 - 120
Uranium	2.40	2.233		mg/Kg		93	80 - 120
Zinc	9.62	10.25		mg/Kg		107	80 - 120

Lab Sample ID: LCSD 860-39512/3-A
Matrix: Solid
Analysis Batch: 39615

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39512

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.81	4.646		mg/Kg		97	80 - 120	0	20
Arsenic	9.62	9.841		mg/Kg		102	80 - 120	1	20
Barium	9.62	9.525		mg/Kg		99	80 - 120	2	20
Beryllium	9.62	9.511		mg/Kg		99	80 - 120	0	20
Cadmium	9.62	9.656		mg/Kg		100	80 - 120	0	20
Chromium	9.62	9.587		mg/Kg		100	80 - 120	0	20
Copper	9.62	9.432		mg/Kg		98	80 - 120	0	20
Iron	48.1	47.59		mg/Kg		99	80 - 120	0	20
Manganese	9.62	9.644		mg/Kg		100	80 - 120	0	20
Lead	9.62	9.392		mg/Kg		98	80 - 120	0	20
Antimony	9.62	9.353		mg/Kg		97	80 - 120	2	20
Selenium	9.62	9.806		mg/Kg		102	80 - 120	1	20
Thallium	9.62	9.427		mg/Kg		98	80 - 120	0	20
Uranium	2.40	2.261		mg/Kg		94	80 - 120	1	20
Zinc	9.62	10.02		mg/Kg		104	80 - 120	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39206/10-A
Matrix: Solid
Analysis Batch: 39396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00356	U	0.0185	0.00356	mg/Kg		01/28/22 08:00	01/28/22 11:49	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 860-39206/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39206**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.192	0.1989		mg/Kg		103	80 - 120

Lab Sample ID: LCSD 860-39206/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39206**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.192	0.1998		mg/Kg		104	80 - 120	0	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40511/24-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40553 — **Prep Batch: 40511**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/07/22 14:39	02/07/22 16:12	1

Lab Sample ID: LCS 860-40511/25-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40553 — **Prep Batch: 40511**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	102.7		ug/Kg		103	90 - 110

Lab Sample ID: LLCS 860-40511/26-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40553 — **Prep Batch: 40511**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	50.0	54.17		ug/Kg		108	90 - 110

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-42223/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 12:48	1

Lab Sample ID: LCS 860-42223/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	1.00	0.9730		mg/Kg		97	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9066 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCSD 860-42223/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 42401 **Prep Batch: 42223**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total			1.00	0.9910		mg/Kg		99	90 - 110	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193044/1 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/10/22 15:50	1

Lab Sample ID: LCS 560-193044/2 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193044

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			2250	2168		mg/L		96	90 - 110		

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	5035	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	5035	

Analysis Batch: 39864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8260D SIM	39768
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8260D SIM	39768
MB 860-39864/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-39864/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-39864/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8260B	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8260B	
MB 560-192640/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192640/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192640/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	3550C	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	3550C	

Analysis Batch: 39315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8270D	39007
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8270D	39007

Prep Batch: 565562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	3546	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	3546	
MB 400-565562/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 565810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8270D	565562
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8270D	565562
MB 400-565562/1-A	Method Blank	Total/NA	Solid	8270D	565562
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	8270D	565562

GC Semi VOA

Prep Batch: 38890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	3550C	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	3550C	
MB 860-38890/1-A	Method Blank	Total/NA	Solid	3550C	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Prep Batch: 38890 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-19624-2 MS	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	3550C	
860-19624-2 MSD	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	3550C	

Analysis Batch: 38895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8081B	38890
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8081B	38890
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8081B	38890
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	8081B	38890
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	38890
860-19624-2 MS	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8081B	38890
860-19624-2 MSD	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8081B	38890

Analysis Batch: 38913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8082A	38890
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8082A	38890
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8082A	38890
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	8082A	38890
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	38890

Analysis Batch: 39342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8015B NM	39365
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8015B NM	39365
MB 860-39365/1-A	Method Blank	Total/NA	Solid	8015B NM	39365
LCS 860-39365/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39365
LCSD 860-39365/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39365

Prep Batch: 39365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8015NM Prep	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8015NM Prep	
MB 860-39365/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-39365/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-39365/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Analysis Batch: 38740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	9056A	38773
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	9056A	38773
MB 860-38773/1-A	Method Blank	Total/NA	Solid	9056A	38773
LCS 860-38773/2-A	Lab Control Sample	Total/NA	Solid	9056A	38773
LCSD 860-38773/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	38773

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Analysis Batch: 38741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	9056A	38773
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	9056A	38773
MB 860-38773/1-A	Method Blank	Total/NA	Solid	9056A	38773
LCS 860-38773/2-A	Lab Control Sample	Total/NA	Solid	9056A	38773
LCSD 860-38773/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	38773

Prep Batch: 38773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	300_Prep	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	300_Prep	
MB 860-38773/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-38773/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-38773/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Drying Batch: 564725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	Prep/Air Dry	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	Prep/Air Dry	
860-19624-2 DU	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	Prep/Air Dry	
860-19624-2 TRL	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8330B	564725
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8330B	564725
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	
860-19624-2 DU	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8330B	564725
860-19624-2 TRL	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8330B	564725

Analysis Batch: 565637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8330B	565272
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8330B	565272
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	565272
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	565272
860-19624-2 DU	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8330B	565272
860-19624-2 TRL	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8330B	565272

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

LCMS

Prep Batch: 565161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	6860	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	6860	
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	6860	565161
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	6860	565161
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	565161
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	565161

Prep Batch: 565681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	PFC leach	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	PFC leach	
MB 280-565681/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 566232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	DV-LC-0012	565681
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	DV-LC-0012	565681
MB 280-565681/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565681
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565681

Metals

Prep Batch: 39206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	7471A	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	7471A	
MB 860-39206/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39206/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39206/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

Analysis Batch: 39396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	7471A	39206
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	7471A	39206
MB 860-39206/10-A	Method Blank	Total/NA	Solid	7471A	39206
LCS 860-39206/11-A	Lab Control Sample	Total/NA	Solid	7471A	39206
LCSD 860-39206/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39206

Prep Batch: 39512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	3051A	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	3051A	
MB 860-39512/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-39512/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-39512/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Analysis Batch: 39615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-39512/1-A	Method Blank	Total/NA	Solid	6020A	39512
LCS 860-39512/2-A	Lab Control Sample	Total/NA	Solid	6020A	39512
LCSD 860-39512/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	39512

Analysis Batch: 39892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	6020A	39512
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	6020A	39512

General Chemistry

Analysis Batch: 39359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	Moisture - 2540	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	Moisture - 2540	
MB 860-39359/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Leach Batch: 40316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Soluble	Solid	DI Leach	
860-19624-2	Cell17-Square 129-S-3-4-220124	Soluble	Solid	DI Leach	

Analysis Batch: 40331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Soluble	Solid	9045D	40316
860-19624-2	Cell17-Square 129-S-3-4-220124	Soluble	Solid	9045D	40316

Prep Batch: 40511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	9012A	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	9012A	
MB 860-40511/24-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40511/25-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40511/26-A	Lab Control Sample	Total/NA	Solid	9012A	

Analysis Batch: 40553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	9012A	40511
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	9012A	40511
MB 860-40511/24-A	Method Blank	Total/NA	Solid	9012A	40511
LCS 860-40511/25-A	Lab Control Sample	Total/NA	Solid	9012A	40511
LLCS 860-40511/26-A	Lab Control Sample	Total/NA	Solid	9012A	40511

Prep Batch: 42223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	Distill/Phenol	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	Distill/Phenol	
MB 860-42223/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Analysis Batch: 42401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	9066	42223
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	9066	42223
MB 860-42223/1-A	Method Blank	Total/NA	Solid	9066	42223
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	9066	42223
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	42223

Leach Batch: 193042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	7 Day Leach	Solid	335.521	
860-19624-2	Cell17-Square 129-S-3-4-220124	7 Day Leach	Solid	335.521	

Analysis Batch: 193044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	7 Day Leach	Solid	SM 2540C	193042
860-19624-2	Cell17-Square 129-S-3-4-220124	7 Day Leach	Solid	SM 2540C	193042
MB 560-193044/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193044/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	Dry and Grind	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	Dry and Grind	

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	Fill_Geo-21	549041
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	Fill_Geo-21	549041

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 26-S-3-4-220124 **Lab Sample ID: 860-19624-1**
Date Collected: 01/24/22 12:10 **Matrix: Solid**
Date Received: 01/25/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.09 g	5 mL	192640	01/27/22 19:22	RJD	XEN CC
Total/NA	Prep	5035			4.99 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 17:59	EM	XEN STF
Total/NA	Prep	3550C			30.09 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39315	01/28/22 17:27	LPL	XEN STF
Total/NA	Prep	3546			15.17 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 17:16	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10 g	10 mL	39365	01/28/22 11:36	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39342	01/29/22 03:31	IS	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			38895	01/26/22 16:41	WP	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			38913	01/26/22 15:31	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.35 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 08:25	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.98 g	50 mL	38773	01/25/22 11:00	ANP	XEN STF
Total/NA	Analysis	9056A		1			38740	01/25/22 18:01	ANP	XEN STF
Total/NA	Prep	300_Prep			4.98 g	50 mL	38773	01/25/22 11:00	ANP	XEN STF
Total/NA	Analysis	9056A		1			38741	01/25/22 18:01	ANP	XEN STF
Total/NA	Prep	6860			10.08 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 18:37	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.97 g	20.4 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 11:56	AGCM	TAL DEN
Total/NA	Prep	3051A			.54 g	50 mL	39512	01/30/22 14:01	PB	XEN STF
Total/NA	Analysis	6020A		10			39892	02/01/22 21:25	DCL	XEN STF
Total/NA	Prep	7471A			.56 g	50 mL	39206	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 12:04	SHZ	XEN STF
Total/NA	Prep	9012A			0.5195 g	6 mL	40511	02/07/22 14:39	CM1	XEN STF
Total/NA	Analysis	9012A		1			40553	02/07/22 16:32	CM1	XEN STF
Soluble	Leach	DI Leach			20.02 g	20 mL	40316	02/04/22 12:59	TL	XEN STF
Soluble	Analysis	9045D		1	20.02 g	20 mL	40331	02/04/22 14:13	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:06	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			319.5000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552700	02/28/22 10:21	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 129-S-3-4-220124 **Lab Sample ID: 860-19624-2**
Date Collected: 01/24/22 12:40 **Matrix: Solid**
Date Received: 01/25/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.53 g	5 mL	192640	01/27/22 19:48	RJD	XEN CC
Total/NA	Prep	5035			5.00 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 18:21	EM	XEN STF
Total/NA	Prep	3550C			30.04 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39315	01/28/22 17:47	LPL	XEN STF
Total/NA	Prep	3546			15.09 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 17:42	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	39365	01/28/22 11:36	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39342	01/29/22 03:51	IS	XEN STF
Total/NA	Prep	3550C			30.06 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			38895	01/26/22 16:57	WP	XEN STF
Total/NA	Prep	3550C			30.06 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			38913	01/26/22 15:41	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.48 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 08:48	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.91 g	50 mL	38773	01/25/22 11:00	ANP	XEN STF
Total/NA	Analysis	9056A		1			38740	01/25/22 18:13	ANP	XEN STF
Total/NA	Prep	300_Prep			4.91 g	50 mL	38773	01/25/22 11:00	ANP	XEN STF
Total/NA	Analysis	9056A		1			38741	01/25/22 18:13	ANP	XEN STF
Total/NA	Prep	6860			10.75 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 18:42	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.55 g	20.4 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 12:05	AGCM	TAL DEN
Total/NA	Prep	3051A			.53 g	50 mL	39512	01/30/22 14:01	PB	XEN STF
Total/NA	Analysis	6020A		10			39892	02/01/22 21:29	DCL	XEN STF
Total/NA	Prep	7471A			.59 g	50 mL	39206	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 12:06	SHZ	XEN STF
Total/NA	Prep	9012A			0.4837 g	6 mL	40511	02/07/22 14:39	CM1	XEN STF
Total/NA	Analysis	9012A		1			40553	02/07/22 16:33	CM1	XEN STF
Soluble	Leach	DI Leach			20.00 g	20 mL	40316	02/04/22 12:59	TL	XEN STF
Soluble	Analysis	9045D		1	20.00 g	20 mL	40331	02/04/22 14:13	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:09	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			299.6000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552701	02/28/22 10:23	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

Laboratory: Eurofins St. Louis

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19624-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19624-1	Cell17-Square 26-S-3-4-220124	Solid	01/24/22 12:10	01/25/22 09:45
860-19624-2	Cell17-Square 129-S-3-4-220124	Solid	01/24/22 12:40	01/25/22 09:45

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Cory Rodriguez	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-599-5594	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 - 1
Company: ARCADIS U.S. Inc.				Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Standard			
State, Zip: CO, 80129-2377	PO #:			
Phone: 303-710-7537(Tel)	WO #:			
Email: Alison.Schaffer@arcadis.com				
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B- Volatiles *	8270C- Semivolatiles/ 8081 Pesticides/ 8082 PCB	6860 Perchlorate-Ddenver- soil jar 4 oz	8330B - Denver soil jar 4 oz *	PFC Denver- plastic 16 oz jar *	8270D_AgChem -Pensacola soil jar 4 oz *	2540C_Calcd Local Method/ Moisture/ pH 9045	8015B_GRO *	8015_DRO/ORO *	GA-01_R_ra- Rad 226/228- St Louis- 2 plastic jars 1lt	9056- Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate; Fluoride	6020/7471- St Louis -soil jar 4 oz *	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
Cell17-Square26-5-3-4-220124	1/24/22	1210	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
Cell17-Square129-5-3-4-220124	1/24/22	1240	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
TB				Solid																	

Temp. 0.6 IR ID HOU-323
C/F +0.2
Corrected Temp: 0.8

860-19624 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Cory Rodriguez	1/24/22 1700	Arcadis			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/25/22 945	Company FX
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 01/16/2019

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9667.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19624-1
Address: 13715 Rider Trail North,	Due Date Requested: 2/11/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell17-Square 26-S-3-4-220124 (860-19624-1)	1/24/22	12:10 Central		Solid			X	1	
Cell17-Square 129-S-3-4-220124 (860-19624-2)	1/24/22	12:40 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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	FED EX	1/26/22 1700	EX	FED EX		
2	FED EX				JAN 28 2022 1120	ETA STL
3				Autumn R. Johnson		

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

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9662.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19624-1
Address: 4955 Yarrow Street,	Due Date Requested: 2/10/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell17-Square 26-S-3-4-220124 (860-19624-1)	1/24/22	12:10 Central		Solid			X	X	X	2	
Cell17-Square 129-S-3-4-220124 (860-19624-2)	1/24/22	12:40 Central		Solid			X	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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	YCRS	1/26/22 1700	EX		1/27/22 1005	ETATEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: ~~4.5~~ IR13CF 0.2 3.1 jm 1/27/22

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9668.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-19624-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 2/11/2022			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell17-Square 26-S-3-4-220124 (860-19624-1)	1/24/22	12:10 Central		Solid			X	1	
Cell17-Square 129-S-3-4-220124 (860-19624-2)	1/24/22	12:40 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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/26/22 1700	EX			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1-27-22 1424	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0-0°C IR8

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9666.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19624-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/10/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B_Solid (MOD) mod	2540C/TX_7Day_T	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square 26-S-3-4-220124 (860-19624-1)	1/24/22	12:10 Central		Solid			X	X	1	
Cell17-Square 129-S-3-4-220124 (860-19624-2)	1/24/22	12:40 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	1/26/22 1700	EX	Caitlyn Gonzales	01/27/2022 1130	EX
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.0 AGIR-10 33

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19624-1

Login Number: 19624 **List Source: Eurofins Houston**
List Number: 1
Creator: Rubio, Yuri

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	0.8
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	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19624-1

Login Number: 19624 **List Source: Eurofins Houston**
List Number: 2
Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
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	0.8
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.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19624-1

Login Number: 19624 **List Source: Eurofins Corpus Christi**
List Number: 3 **List Creation: 01/27/22 01:41 PM**
Creator: Forrester, Caitlyn D

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.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19624-1

Login Number: 19624 **List Source: Eurofins Denver**
List Number: 5 **List Creation: 01/27/22 04:38 PM**
Creator: Rystrom, Joshua R

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	
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").	True	
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: 860-19624-1

Login Number: 19624 **List Source: Eurofins Pensacola**
List Number: 4 **List Creation: 01/27/22 04:50 PM**
Creator: Whitley, Adrian

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	0.0°C IR8
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: 860-19624-1

Login Number: 19624 **List Source: Eurofins St. Louis**
List Number: 6 **List Creation: 02/01/22 12:03 PM**
Creator: Johnson, Autumn R

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	
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.	N/A	

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ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19738-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
2/28/2022 5:51:52 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

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

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

Laboratory Job ID: 860-19738-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA TICs

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

GC Semi VOA

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

HPLC/IC

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.

LCMS

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding 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.

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	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.
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.
¤	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)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19738-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19738-1

Receipt
The samples were received on 1/26/2022 11:22 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 4.7°C

GC/MS VOA
Method 8260B: The following analyte recovered outside control limits for the LCS associated with analytical batch 560-192640: Tetrachloroethene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been 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_AgChem: Internal standard (ISTD) response for Prometon for the following samples in analytical batch 400-565810 was outside acceptance criteria: Cell19-Square 123-S-3-4-220125 (860-19738-1), Cell19-Square 94-S-3-4-220125 (860-19738-2), (LCS 400-565562/2-A), (MB 400-565562/1-A), (860-19619-G-1-C), (860-19619-G-1-A MS) and (860-19619-G-1-B MSD). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

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

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

PCBs
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_48H: The method blank for preparation batch 860-39027 and analytical batch 860-38815 contained nitrite above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction <and_or> re-analysis of samples was not performed.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell19-Square 123-S-3-4-220125 (860-19738-1) and Cell19-Square 94-S-3-4-220125 (860-19738-2) in preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell19-Square 123-S-3-4-220125 (860-19738-1) and Cell19-Square 94-S-3-4-220125 (860-19738-2). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell19-Square 123-S-3-4-220125 (860-19738-1) and Cell19-Square 94-S-3-4-220125 (860-19738-2) in preparation batch 280-564725 and 280-565272 by 8330B_Sonc_10g for 8330B.

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

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19738-1 (Continued)

Laboratory: Eurofins Houston (Continued)

LCMS

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

PFAS

Method PFC: In preparation batch 280-565681, the following samples were re-prepared outside of preparation holding time due to the samples in the original batch being extracted but not filtered and sent on to the instrument analyst: Cell19-Square 123-S-3-4-220125 (860-19738-1) and Cell19-Square 94-S-3-4-220125 (860-19738-2). Method PFC_Leach/PFC.

Method PFC: During pH adjustment, the following samples required 2 mL of acid to reach the desired pH: Cell19-Square 123-S-3-4-220125 (860-19738-1). Most samples take less than 1 mL to reach the desired range preparation batch 280-565681. Method:PFC

Method PFC: During pH adjustment, the following samples required 3 mL of acid to reach the desired pH: Cell19-Square 94-S-3-4-220125 (860-19738-2). Most samples take less than 1 mL to reach the desired range preparation batch 280-565681. Method:PFC

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

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 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 AnalyteTh-234 Pa-234Th-234 U-238Pb-210 Po-210 Pb-210 Bi-210Cs-137 Ba-137mPb-212 Po-216Xe-131m Xe-131Sb-125 Te-125mAg-108m Ag-108Rh-106 Ru-106Pb-212 Th-228Pb-212 Ra-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. Cell19-Square 123-S-3-4-220125 (860-19738-1), Cell19-Square 94-S-3-4-220125 (860-19738-2), (LCS 160-549553/2-A), (MB 160-549553/1-A), (860-19990-D-2-B) and (860-19990-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 123-S-3-4-220125 Lab Sample ID: 860-19738-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.62	J	10.1	3.56	mg/Kg	1		9056A	Total/NA
Nitrate as N	5.52		1.01	0.109	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.152	J b	1.01	0.0503	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	5.68	b	1.01	0.00503	mg/Kg	1		9056A	Total/NA
Sulfate	112		10.1	4.35	mg/Kg	1		9056A	Total/NA
Arsenic	1.74	J	3.45	0.532	mg/Kg	10		6020A	Total/NA
Barium	154		3.45	0.299	mg/Kg	10		6020A	Total/NA
Chromium	2.83	J	3.45	0.234	mg/Kg	10		6020A	Total/NA
Copper	1.82	J	3.45	0.225	mg/Kg	10		6020A	Total/NA
Iron	2390		17.2	2.02	mg/Kg	10		6020A	Total/NA
Manganese	31.4		1.72	0.219	mg/Kg	10		6020A	Total/NA
Lead	1.50	J	1.72	0.167	mg/Kg	10		6020A	Total/NA
Antimony	0.213	J	1.72	0.103	mg/Kg	10		6020A	Total/NA
Uranium	0.235	J	0.862	0.0515	mg/Kg	10		6020A	Total/NA
Zinc	8.45		3.45	0.382	mg/Kg	10		6020A	Total/NA
Mercury	0.00519	J	0.0192	0.00370	mg/Kg	1		7471A	Total/NA
Cyanide, Total	34.0	J	58.1	28.8	ug/Kg	1		9012A	Total/NA
pH	8.4	HF			SU	1		9045D	Soluble
Total Dissolved Solids	206		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell19-Square 94-S-3-4-220125 Lab Sample ID: 860-19738-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.54	J	9.88	3.50	mg/Kg	1		9056A	Total/NA
Nitrate as N	18.5		0.988	0.107	mg/Kg	1		9056A	Total/NA
Fluoride	6.56		4.94	0.988	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.101	J b	0.988	0.0494	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	18.7	b	0.988	0.00494	mg/Kg	1		9056A	Total/NA
Sulfate	243		9.88	4.27	mg/Kg	1		9056A	Total/NA
Arsenic	2.09	J	3.51	0.541	mg/Kg	10		6020A	Total/NA
Barium	169		3.51	0.304	mg/Kg	10		6020A	Total/NA
Chromium	1.81	J	3.51	0.238	mg/Kg	10		6020A	Total/NA
Copper	1.11	J	3.51	0.229	mg/Kg	10		6020A	Total/NA
Iron	1400		17.5	2.06	mg/Kg	10		6020A	Total/NA
Manganese	14.1		1.75	0.223	mg/Kg	10		6020A	Total/NA
Lead	0.883	J	1.75	0.170	mg/Kg	10		6020A	Total/NA
Antimony	0.158	J	1.75	0.104	mg/Kg	10		6020A	Total/NA
Uranium	0.401	J	0.877	0.0524	mg/Kg	10		6020A	Total/NA
Zinc	5.97		3.51	0.388	mg/Kg	10		6020A	Total/NA
Mercury	0.00769	J	0.0192	0.00370	mg/Kg	1		7471A	Total/NA
pH	8.6	HF			SU	1		9045D	Soluble
Total Dissolved Solids	205		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 123-S-3-4-220125
Lab Sample ID: 860-19738-1
Date Collected: 01/25/22 11:20
Matrix: Solid
Date Received: 01/26/22 11:22

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.680	U	4.66	0.680	ug/Kg			01/27/22 20:13	1
Chloromethane	1.12	U	4.66	1.12	ug/Kg			01/27/22 20:13	1
Vinyl chloride	0.559	U	4.66	0.559	ug/Kg			01/27/22 20:13	1
Bromomethane	1.02	U	4.66	1.02	ug/Kg			01/27/22 20:13	1
Trichlorofluoromethane	0.466	U	4.66	0.466	ug/Kg			01/27/22 20:13	1
Acrolein	8.01	U	46.6	8.01	ug/Kg			01/27/22 20:13	1
1,1-Dichloroethene	0.466	U	4.66	0.466	ug/Kg			01/27/22 20:13	1
trans-1,2-Dichloroethene	0.466	U	4.66	0.466	ug/Kg			01/27/22 20:13	1
Methyl tert-butyl ether	0.568	U	4.66	0.568	ug/Kg			01/27/22 20:13	1
1,3-Dichlorobenzene	0.289	U	4.66	0.289	ug/Kg			01/27/22 20:13	1
Methylene Chloride	4.66	U	23.3	4.66	ug/Kg			01/27/22 20:13	1
Acrylonitrile	3.35	U	46.6	3.35	ug/Kg			01/27/22 20:13	1
cis-1,2-Dichloroethene	0.531	U	4.66	0.531	ug/Kg			01/27/22 20:13	1
Carbon tetrachloride	0.475	U	4.66	0.475	ug/Kg			01/27/22 20:13	1
Benzene	0.587	U	4.66	0.587	ug/Kg			01/27/22 20:13	1
1,2-Dichloroethane	0.484	U	4.66	0.484	ug/Kg			01/27/22 20:13	1
Trichloroethene	0.261	U	4.66	0.261	ug/Kg			01/27/22 20:13	1
1,1,1-Trichloroethane	0.466	U	4.66	0.466	ug/Kg			01/27/22 20:13	1
1,1-Dichloroethane	0.549	U	4.66	0.549	ug/Kg			01/27/22 20:13	1
1,2-Dichloropropane	0.466	U	4.66	0.466	ug/Kg			01/27/22 20:13	1
1,4-Dioxane	17.7	U	93.1	17.7	ug/Kg			01/27/22 20:13	1
Chloroform	0.810	U	4.66	0.810	ug/Kg			01/27/22 20:13	1
Bromodichloromethane	0.186	U	4.66	0.186	ug/Kg			01/27/22 20:13	1
1,1-Dichloropropene	0.484	U	4.66	0.484	ug/Kg			01/27/22 20:13	1
cis-1,3-Dichloropropene	0.419	U	4.66	0.419	ug/Kg			01/27/22 20:13	1
Toluene	0.838	U	4.66	0.838	ug/Kg			01/27/22 20:13	1
trans-1,3-Dichloropropene	0.484	U	4.66	0.484	ug/Kg			01/27/22 20:13	1
1,1,2-Trichloroethane	0.466	U	4.66	0.466	ug/Kg			01/27/22 20:13	1
Tetrachloroethene	0.689	U *	4.66	0.689	ug/Kg			01/27/22 20:13	1
1,3-Dichloropropene, Total	0.484	U	4.66	0.484	ug/Kg			01/27/22 20:13	1
1,2-Dibromoethane	0.279	U	4.66	0.279	ug/Kg			01/27/22 20:13	1
Monochlorobenzene	0.279	U	4.66	0.279	ug/Kg			01/27/22 20:13	1
Ethylbenzene	0.419	U	4.66	0.419	ug/Kg			01/27/22 20:13	1
Xylenes, Total	0.466	U	9.31	0.466	ug/Kg			01/27/22 20:13	1
Styrene	0.279	U	4.66	0.279	ug/Kg			01/27/22 20:13	1
Tribromomethane	0.475	U	4.66	0.475	ug/Kg			01/27/22 20:13	1
1,1,2,2-Tetrachloroethane	0.354	U	4.66	0.354	ug/Kg			01/27/22 20:13	1
1,4-Dichlorobenzene	0.298	U	4.66	0.298	ug/Kg			01/27/22 20:13	1
1,2-Dichlorobenzene	0.233	U	4.66	0.233	ug/Kg			01/27/22 20:13	1
1,2,4-Trichlorobenzene	0.903	U	4.66	0.903	ug/Kg			01/27/22 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*65 - 152*		*01/27/22 20:13*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/27/22 20:13*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 20:13*	*1*
4-Bromofluorobenzene (Surr)	*114*		*61 - 142*		*01/27/22 20:13*	*1*

Method: 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	0.00501	0.00251	mg/Kg		02/01/22 11:08	02/01/22 18:43	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 123-S-3-4-220125
Lab Sample ID: 860-19738-1
Date Collected: 01/25/22 11:20
Matrix: Solid
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*89*		*63 - 144*	*02/01/22 11:08*	*02/01/22 18:43*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.9	U	65.4	11.9	ug/Kg		02/04/22 15:17	02/08/22 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*38*		*30 - 164*	*02/04/22 15:17*	*02/08/22 18:07*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.3	U	166	17.3	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
bis (2-chloroisopropyl) ether	17.7	U	166	17.7	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
2,6-Dinitrotoluene	23.2	U	166	23.2	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Anthracene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Chrysene	16.5	U	166	16.5	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Dimethyl phthalate	15.8	U	166	15.8	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Fluorene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Hexachloroethane	17.2	U	166	17.2	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Isophorone	14.5	U	166	14.5	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		01/27/22 07:14	01/28/22 18:07	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 123-S-3-4-220125 **Lab Sample ID: 860-19738-1**
Date Collected: 01/25/22 11:20 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Pyrene	14.6	U	166	14.6	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Naphthalene	15.6	U	166	15.6	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Nitrobenzene	18.5	U	166	18.5	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		01/27/22 07:14	01/28/22 18:07	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	333	332	ug/Kg		01/27/22 07:14	01/28/22 18:07	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.665*	*U*	*mg/Kg*			*542-88-1*	*01/27/22 07:14*	*01/28/22 18:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*30 - 115*	*01/27/22 07:14*	*01/28/22 18:07*	*1*
2-Fluorophenol	*87*		*25 - 121*	*01/27/22 07:14*	*01/28/22 18:07*	*1*
2,4,6-Tribromophenol	*102*		*19 - 122*	*01/27/22 07:14*	*01/28/22 18:07*	*1*
Nitrobenzene-d5	*85*		*23 - 129*	*01/27/22 07:14*	*01/28/22 18:07*	*1*
Phenol-d5 (Surr)	*84*		*24 - 113*	*01/27/22 07:14*	*01/28/22 18:07*	*1*
p-Terphenyl-d14 (Surr)	*108*		*18 - 137*	*01/27/22 07:14*	*01/28/22 18:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.2	U	50.2	21.2	mg/Kg		02/01/22 12:49	02/01/22 22:28	1
Diesel Range Organics (Over C10-C28)	21.2	U	50.2	21.2	mg/Kg		02/01/22 12:49	02/01/22 22:28	1
OII Range Organics (Over C28-C36)	21.2	U	50.2	21.2	mg/Kg		02/01/22 12:49	02/01/22 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*65 - 130*	*02/01/22 12:49*	*02/01/22 22:28*	*1*
o-Terphenyl (Surr)	*111*		*65 - 130*	*02/01/22 12:49*	*02/01/22 22:28*	*1*

Method: 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		01/26/22 08:34	01/28/22 13:21	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/26/22 08:34	01/28/22 13:21	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 123-S-3-4-220125 **Lab Sample ID: 860-19738-1**
Date Collected: 01/25/22 11:20 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Heptachlor epoxide	0.245	U	0.832	0.245	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/26/22 08:34	01/28/22 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*35 - 135*	*01/26/22 08:34*	*01/28/22 13:21*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*25 - 143*	*01/26/22 08:34*	*01/28/22 13:21*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:21	1
Aroclor 1221	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:21	1
Aroclor 1232	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:21	1
Aroclor 1242	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:21	1
Aroclor 1248	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:21	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 20:21	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*56*		*35 - 140*	*01/26/22 08:34*	*01/27/22 20:21*	*1*
DCB Decachlorobiphenyl (Surr)	*119*		*37 - 142*	*01/26/22 08:34*	*01/27/22 20:21*	*1*

Method: 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		02/05/22 11:25	02/10/22 10:20	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0415	U	0.193	0.0415	mg/Kg		02/05/22 11:25	02/10/22 10:20	1
2,4,6-Trinitrotoluene	0.0297	U	0.0966	0.0297	mg/Kg		02/05/22 11:25	02/10/22 10:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*02/05/22 11:25*	*02/10/22 10:20*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.62**	**J**	10.1	3.56	mg/Kg		01/26/22 15:18	01/27/22 11:49	1
Nitrate as N	**5.52**		1.01	0.109	mg/Kg		01/26/22 15:18	01/27/22 11:49	1
Fluoride	1.01	U	5.03	1.01	mg/Kg		01/26/22 15:18	01/27/22 11:49	1
Nitrite as N	**0.152**	**J b**	1.01	0.0503	mg/Kg		01/26/22 15:18	01/27/22 11:49	1
Nitrate Nitrite as N	**5.68**	**b**	1.01	0.00503	mg/Kg		01/26/22 15:18	01/27/22 11:49	1
Sulfate	**112**		10.1	4.35	mg/Kg		01/26/22 15:18	01/27/22 11:49	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0777	U	0.472	0.0777	ug/Kg		02/03/22 17:49	02/08/22 18:48	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.222	U H	0.771	0.222	ug/Kg		02/10/22 11:04	02/16/22 12:14	1
Perfluorohexanesulfonic acid (PFHxS)	0.270	U H	0.771	0.270	ug/Kg		02/10/22 11:04	02/16/22 12:14	1
Perfluorooctanesulfonic acid (PFOS)	0.135	U H	0.771	0.135	ug/Kg		02/10/22 11:04	02/16/22 12:14	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 123-S-3-4-220125 Lab Sample ID: 860-19738-1

Date Collected: 01/25/22 11:20 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	02/10/22 11:04	02/16/22 12:14	1
13C8 PFOS	105		70 - 130	02/10/22 11:04	02/16/22 12:14	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.137	U	1.72	0.137	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Arsenic	**1.74**	**J**	3.45	0.532	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Barium	**154**		3.45	0.299	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Beryllium	0.160	U	1.72	0.160	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Cadmium	0.100	U	1.72	0.100	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Chromium	**2.83**	**J**	3.45	0.234	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Copper	**1.82**	**J**	3.45	0.225	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Iron	**2390**		17.2	2.02	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Manganese	**31.4**		1.72	0.219	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Lead	**1.50**	**J**	1.72	0.167	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Antimony	**0.213**	**J**	1.72	0.103	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Selenium	0.428	U	1.72	0.428	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Thallium	0.206	U	1.72	0.206	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Uranium	**0.235**	**J**	0.862	0.0515	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Zinc	**8.45**		3.45	0.382	mg/Kg		02/02/22 12:57	02/04/22 13:24	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00519**	**J**	0.0192	0.00370	mg/Kg		01/28/22 08:00	01/28/22 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**34.0**	**J**	58.1	28.8	ug/Kg		02/08/22 15:02	02/08/22 16:44	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:11	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.4**	**HF**			SU			02/08/22 15:18	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**206**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**0.650**		0.181	0.197	1.00	0.145	pCi/g	02/07/22 10:12	02/28/22 10:21	1
Radium-228	0.238	U	0.206	0.208		0.285	pCi/g	02/07/22 10:12	02/28/22 10:21	1
Combined Radium 226 + 228	**0.888**		0.274	0.286		0.285	pCi/g	02/07/22 10:12	02/28/22 10:21	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 94-S-3-4-220125 **Lab Sample ID: 860-19738-2**
Date Collected: 01/25/22 11:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.661	U	4.53	0.661	ug/Kg			01/27/22 20:39	1
Chloromethane	1.09	U	4.53	1.09	ug/Kg			01/27/22 20:39	1
Vinyl chloride	0.543	U	4.53	0.543	ug/Kg			01/27/22 20:39	1
Bromomethane	0.996	U	4.53	0.996	ug/Kg			01/27/22 20:39	1
Trichlorofluoromethane	0.453	U	4.53	0.453	ug/Kg			01/27/22 20:39	1
Acrolein	7.79	U	45.3	7.79	ug/Kg			01/27/22 20:39	1
1,1-Dichloroethene	0.453	U	4.53	0.453	ug/Kg			01/27/22 20:39	1
trans-1,2-Dichloroethene	0.453	U	4.53	0.453	ug/Kg			01/27/22 20:39	1
Methyl tert-butyl ether	0.553	U	4.53	0.553	ug/Kg			01/27/22 20:39	1
1,3-Dichlorobenzene	0.281	U	4.53	0.281	ug/Kg			01/27/22 20:39	1
Methylene Chloride	4.53	U	22.6	4.53	ug/Kg			01/27/22 20:39	1
Acrylonitrile	3.26	U	45.3	3.26	ug/Kg			01/27/22 20:39	1
cis-1,2-Dichloroethene	0.516	U	4.53	0.516	ug/Kg			01/27/22 20:39	1
Carbon tetrachloride	0.462	U	4.53	0.462	ug/Kg			01/27/22 20:39	1
Benzene	0.571	U	4.53	0.571	ug/Kg			01/27/22 20:39	1
1,2-Dichloroethane	0.471	U	4.53	0.471	ug/Kg			01/27/22 20:39	1
Trichloroethene	0.254	U	4.53	0.254	ug/Kg			01/27/22 20:39	1
1,1,1-Trichloroethane	0.453	U	4.53	0.453	ug/Kg			01/27/22 20:39	1
1,1-Dichloroethane	0.534	U	4.53	0.534	ug/Kg			01/27/22 20:39	1
1,2-Dichloropropane	0.453	U	4.53	0.453	ug/Kg			01/27/22 20:39	1
1,4-Dioxane	17.2	U	90.6	17.2	ug/Kg			01/27/22 20:39	1
Chloroform	0.788	U	4.53	0.788	ug/Kg			01/27/22 20:39	1
Bromodichloromethane	0.181	U	4.53	0.181	ug/Kg			01/27/22 20:39	1
1,1-Dichloropropene	0.471	U	4.53	0.471	ug/Kg			01/27/22 20:39	1
cis-1,3-Dichloropropene	0.408	U	4.53	0.408	ug/Kg			01/27/22 20:39	1
Toluene	0.815	U	4.53	0.815	ug/Kg			01/27/22 20:39	1
trans-1,3-Dichloropropene	0.471	U	4.53	0.471	ug/Kg			01/27/22 20:39	1
1,1,2-Trichloroethane	0.453	U	4.53	0.453	ug/Kg			01/27/22 20:39	1
Tetrachloroethene	0.670	U *	4.53	0.670	ug/Kg			01/27/22 20:39	1
1,3-Dichloropropene, Total	0.471	U	4.53	0.471	ug/Kg			01/27/22 20:39	1
1,2-Dibromoethane	0.272	U	4.53	0.272	ug/Kg			01/27/22 20:39	1
Monochlorobenzene	0.272	U	4.53	0.272	ug/Kg			01/27/22 20:39	1
Ethylbenzene	0.408	U	4.53	0.408	ug/Kg			01/27/22 20:39	1
Xylenes, Total	0.453	U	9.06	0.453	ug/Kg			01/27/22 20:39	1
Styrene	0.272	U	4.53	0.272	ug/Kg			01/27/22 20:39	1
Tribromomethane	0.462	U	4.53	0.462	ug/Kg			01/27/22 20:39	1
1,1,2,2-Tetrachloroethane	0.344	U	4.53	0.344	ug/Kg			01/27/22 20:39	1
1,4-Dichlorobenzene	0.290	U	4.53	0.290	ug/Kg			01/27/22 20:39	1
1,2-Dichlorobenzene	0.226	U	4.53	0.226	ug/Kg			01/27/22 20:39	1
1,2,4-Trichlorobenzene	0.879	U	4.53	0.879	ug/Kg			01/27/22 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*65 - 152*		*01/27/22 20:39*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/27/22 20:39*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 136*		*01/27/22 20:39*	*1*
4-Bromofluorobenzene (Surr)	*112*		*61 - 142*		*01/27/22 20:39*	*1*

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.0000252	U	0.0000504	0.0000252	mg/Kg		02/01/22 11:08	02/01/22 19:04	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 94-S-3-4-220125 **Lab Sample ID: 860-19738-2**
Date Collected: 01/25/22 11:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*	*02/01/22 11:08*	*02/01/22 19:04*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.9	U	65.6	11.9	ug/Kg		02/04/22 15:17	02/08/22 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*85*	*	*30 - 164*	*02/04/22 15:17*	*02/08/22 18:33*	*1*

Method: 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		01/27/22 07:14	01/28/22 18:28	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/28/22 18:28	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 94-S-3-4-220125 **Lab Sample ID: 860-19738-2**
Date Collected: 01/25/22 11:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/27/22 07:14	01/28/22 18:28	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/27/22 07:14	01/28/22 18:28	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*	*01/27/22 07:14*	*01/28/22 18:28*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*30 - 115*	*01/27/22 07:14*	*01/28/22 18:28*	*1*
2-Fluorophenol	*59*		*25 - 121*	*01/27/22 07:14*	*01/28/22 18:28*	*1*
2,4,6-Tribromophenol	*69*		*19 - 122*	*01/27/22 07:14*	*01/28/22 18:28*	*1*
Nitrobenzene-d5	*62*		*23 - 129*	*01/27/22 07:14*	*01/28/22 18:28*	*1*
Phenol-d5 (Surr)	*59*		*24 - 113*	*01/27/22 07:14*	*01/28/22 18:28*	*1*
p-Terphenyl-d14 (Surr)	*74*		*18 - 137*	*01/27/22 07:14*	*01/28/22 18:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.1	21.1	mg/Kg		02/01/22 12:49	02/01/22 22:48	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		02/01/22 12:49	02/01/22 22:48	1
OII Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		02/01/22 12:49	02/01/22 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*65 - 130*	*02/01/22 12:49*	*02/01/22 22:48*	*1*
o-Terphenyl (Surr)	*116*		*65 - 130*	*02/01/22 12:49*	*02/01/22 22:48*	*1*

Method: 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		01/26/22 08:34	01/28/22 15:50	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Endosulfan I	0.201	U	0.832	0.201	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/26/22 08:34	01/28/22 15:50	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 94-S-3-4-220125 Lab Sample ID: 860-19738-2

Date Collected: 01/25/22 11:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Heptachlor epoxide	0.244	U	0.832	0.244	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/26/22 08:34	01/28/22 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*35 - 135*	*01/26/22 08:34*	*01/28/22 15:50*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*25 - 143*	*01/26/22 08:34*	*01/28/22 15:50*	*1*

Method: 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		01/26/22 08:34	01/27/22 20:30	1
Aroclor 1221	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/27/22 20:30	1
Aroclor 1232	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/27/22 20:30	1
Aroclor 1242	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/27/22 20:30	1
Aroclor 1248	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/27/22 20:30	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 20:30	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*35 - 140*	*01/26/22 08:34*	*01/27/22 20:30*	*1*
DCB Decachlorobiphenyl (Surr)	*124*		*37 - 142*	*01/26/22 08:34*	*01/27/22 20:30*	*1*

Method: 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	0.0926	0.0210	mg/Kg		02/05/22 11:25	02/10/22 10:43	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0398	U	0.185	0.0398	mg/Kg		02/05/22 11:25	02/10/22 10:43	1
2,4,6-Trinitrotoluene	0.0284	U	0.0926	0.0284	mg/Kg		02/05/22 11:25	02/10/22 10:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*105*		*83 - 122*	*02/05/22 11:25*	*02/10/22 10:43*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.54**	**J**	9.88	3.50	mg/Kg		01/26/22 15:18	01/27/22 12:01	1
Nitrate as N	**18.5**		0.988	0.107	mg/Kg		01/26/22 15:18	01/27/22 12:01	1
Fluoride	**6.56**		4.94	0.988	mg/Kg		01/26/22 15:18	01/27/22 12:01	1
Nitrite as N	**0.101**	**J b**	0.988	0.0494	mg/Kg		01/26/22 15:18	01/27/22 12:01	1
Nitrate Nitrite as N	**18.7**	**b**	0.988	0.00494	mg/Kg		01/26/22 15:18	01/27/22 12:01	1
Sulfate	**243**		9.88	4.27	mg/Kg		01/26/22 15:18	01/27/22 12:01	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0786	U	0.477	0.0786	ug/Kg		02/03/22 17:49	02/08/22 19:08	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.213	U H	0.741	0.213	ug/Kg		02/10/22 11:04	02/16/22 12:23	1
Perfluorohexanesulfonic acid (PFHxS)	0.259	U H	0.741	0.259	ug/Kg		02/10/22 11:04	02/16/22 12:23	1
Perfluorooctanesulfonic acid (PFOS)	0.130	U H	0.741	0.130	ug/Kg		02/10/22 11:04	02/16/22 12:23	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 94-S-3-4-220125 Lab Sample ID: 860-19738-2

Date Collected: 01/25/22 11:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	02/10/22 11:04	02/16/22 12:23	1
13C8 PFOS	107		70 - 130	02/10/22 11:04	02/16/22 12:23	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.139	U	1.75	0.139	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Arsenic	**2.09**	**J**	3.51	0.541	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Barium	**169**		3.51	0.304	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Beryllium	0.162	U	1.75	0.162	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Cadmium	0.102	U	1.75	0.102	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Chromium	**1.81**	**J**	3.51	0.238	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Copper	**1.11**	**J**	3.51	0.229	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Iron	**1400**		17.5	2.06	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Manganese	**14.1**		1.75	0.223	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Lead	**0.883**	**J**	1.75	0.170	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Antimony	**0.158**	**J**	1.75	0.104	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Selenium	0.435	U	1.75	0.435	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Thallium	0.210	U	1.75	0.210	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Uranium	**0.401**	**J**	0.877	0.0524	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Zinc	**5.97**		3.51	0.388	mg/Kg		02/02/22 12:57	02/04/22 13:27	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00769**	**J**	0.0192	0.00370	mg/Kg		01/28/22 08:00	01/28/22 12:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	30.8	U	62.1	30.8	ug/Kg		02/08/22 15:02	02/08/22 16:51	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:25	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**	**HF**			SU			02/08/22 15:18	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**205**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**0.909**		0.171	0.202	1.00	0.0964	pCi/g	02/07/22 10:12	02/28/22 10:22	1
Radium-228	0.0942	U	0.195	0.195		0.273	pCi/g	02/07/22 10:12	02/28/22 10:22	1
Combined Radium 226 + 228	**1.00**		0.259	0.281		0.273	pCi/g	02/07/22 10:12	02/28/22 10:22	1

Surrogate Summary

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

Job ID: 860-19738-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(65-152)	(65-139)	(50-136)	(61-142)
860-19738-1	Cell19-Square 123-S-3-4-220125	93	94	93	114
860-19738-2	Cell19-Square 94-S-3-4-220125	95	94	95	112
LCS 560-192640/3	Lab Control Sample	94	94	96	116
LCSD 560-192640/4	Lab Control Sample Dup	94	95	96	117
MB 560-192640/7	Method Blank	92	95	93	111

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCA
Lab Sample ID	Client Sample ID	(63-144)
860-19738-1	Cell19-Square 123-S-3-4-220125	89
860-19738-2	Cell19-Square 94-S-3-4-220125	90
LCS 860-39864/11	Lab Control Sample	90
LCSD 860-39864/12	Lab Control Sample Dup	92
MB 860-39864/16	Method Blank	91

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19738-1	Cell19-Square 123-S-3-4-220125	38
860-19738-2	Cell19-Square 94-S-3-4-220125	85 *
LCS 400-565562/2-A	Lab Control Sample	95 *
MB 400-565562/1-A	Method Blank	80

Surrogate Legend

TPP = Triphenylphosphate

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(30-115)	(25-121)	(19-122)	(23-129)	(24-113)	(18-137)
860-19738-1	Cell19-Square 123-S-3-4-220125	97	87	102	85	84	108
860-19738-2	Cell19-Square 94-S-3-4-220125	62	59	69	62	59	74

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(65-130)	(65-130)								
860-19738-1	Cell19-Square 123-S-3-4-220125	110	111								
860-19738-2	Cell19-Square 94-S-3-4-220125	114	116								
LCS 860-39790/2-A - RA	Lab Control Sample	107	100								
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	110	103								
MB 860-39790/1-A - RA	Method Blank	105	97								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	DCB1								
Lab Sample ID	Client Sample ID	(35-135)	(25-143)								
860-19738-1	Cell19-Square 123-S-3-4-220125	67	81								
860-19738-2	Cell19-Square 94-S-3-4-220125	73	79								
LCS 860-38890/2-A	Lab Control Sample	88	107								
LCSD 860-38890/3-A	Lab Control Sample Dup	86	107								
MB 860-38890/1-A	Method Blank	95	115								

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)									
		TCX1	DCB1								
Lab Sample ID	Client Sample ID	(35-140)	(37-142)								
860-19738-1	Cell19-Square 123-S-3-4-220125	56	119								
860-19738-2	Cell19-Square 94-S-3-4-220125	62	124								
LCS 860-38890/4-A	Lab Control Sample	72	86								
LCSD 860-38890/5-A	Lab Control Sample Dup	67	87								
MB 860-38890/1-A	Method Blank	80	91								

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

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)								
860-19738-1	Cell19-Square 123-S-3-4-220125	106								
860-19738-2	Cell19-Square 94-S-3-4-220125	105								
LCS 280-565272/2-A	Lab Control Sample	99								
MB 280-565272/1-A	Method Blank	105								

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)							
860-19738-1	Cell19-Square 123-S-3-4-220125	103	105							
860-19738-2	Cell19-Square 94-S-3-4-220125	103	107							
DLCK 280-556129/13	Lab Control Sample	98	105							
LCS 280-565681/2-A	Lab Control Sample	104	108							
MB 280-565681/1-A	Method Blank	104	107							

Surrogate Legend

C8PFOA = 13C8 PFOA

C8PFOS = 13C8 PFOS

QC Sample Results

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

Job ID: 860-19738-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192640/7
Matrix: Solid
Analysis Batch: 192640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/27/22 17:15	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/27/22 17:15	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/27/22 17:15	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/27/22 17:15	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/27/22 17:15	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/27/22 17:15	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/27/22 17:15	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/27/22 17:15	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/27/22 17:15	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/27/22 17:15	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/27/22 17:15	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/27/22 17:15	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/27/22 17:15	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/27/22 17:15	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/27/22 17:15	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/27/22 17:15	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/27/22 17:15	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/27/22 17:15	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/27/22 17:15	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/27/22 17:15	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/27/22 17:15	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/27/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 152*		*01/27/22 17:15*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 17:15*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 17:15*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*01/27/22 17:15*	*1*

QC Sample Results

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

Job ID: 860-19738-1

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

Lab Sample ID: LCS 560-192640/3
Matrix: Solid
Analysis Batch: 192640

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	35.80		ug/Kg		89	13 - 130
Chloromethane	40.0	29.10		ug/Kg		73	61 - 137
Vinyl chloride	40.0	34.22		ug/Kg		86	65 - 139
Bromomethane	40.0	32.15		ug/Kg		80	57 - 155
Trichlorofluoromethane	40.0	32.83		ug/Kg		82	68 - 146
Acrolein	395	383.2		ug/Kg		97	20 - 150
1,1-Dichloroethene	40.0	35.68		ug/Kg		89	70 - 130
trans-1,2-Dichloroethene	40.0	35.03		ug/Kg		88	70 - 132
Methyl tert-butyl ether	40.0	37.20		ug/Kg		93	70 - 130
1,3-Dichlorobenzene	40.0	35.27		ug/Kg		88	70 - 130
Methylene Chloride	40.0	33.56		ug/Kg		84	61 - 150
Acrylonitrile	400	374.6		ug/Kg		94	66 - 137
cis-1,2-Dichloroethene	40.0	36.33		ug/Kg		91	70 - 130
Carbon tetrachloride	40.0	31.85		ug/Kg		80	70 - 136
Benzene	40.0	35.70		ug/Kg		89	70 - 131
1,2-Dichloroethane	40.0	31.23		ug/Kg		78	70 - 130
Trichloroethene	40.0	34.26		ug/Kg		86	70 - 130
1,1,1-Trichloroethane	40.0	31.86		ug/Kg		80	70 - 132
1,1-Dichloroethane	40.0	34.37		ug/Kg		86	70 - 130
1,2-Dichloropropane	40.0	36.83		ug/Kg		92	70 - 130
1,4-Dioxane	800	833.9		ug/Kg		104	10 - 150
Chloroform	40.0	32.99		ug/Kg		82	70 - 130
Bromodichloromethane	40.0	34.83		ug/Kg		87	70 - 130
1,1-Dichloropropene	40.0	37.02		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	32.77		ug/Kg		82	70 - 130
Toluene	40.0	32.19		ug/Kg		80	70 - 130
trans-1,3-Dichloropropene	40.0	35.13		ug/Kg		88	70 - 131
1,1,2-Trichloroethane	40.0	33.40		ug/Kg		84	70 - 130
Tetrachloroethene	40.0	27.27	*	ug/Kg		68	70 - 130
1,3-Dichloropropene, Total	80.0	67.90		ug/Kg		85	
1,2-Dibromoethane	40.0	32.91		ug/Kg		82	70 - 130
Monochlorobenzene	40.0	31.49		ug/Kg		79	70 - 130
Ethylbenzene	40.0	35.33		ug/Kg		88	70 - 130
Xylenes, Total	80.0	73.91		ug/Kg		92	70 - 130
Styrene	40.0	36.75		ug/Kg		92	70 - 130
Tribromomethane	40.0	29.36		ug/Kg		73	59 - 137
1,1,2,2-Tetrachloroethane	40.0	38.53		ug/Kg		96	70 - 130
1,4-Dichlorobenzene	40.0	33.92		ug/Kg		85	70 - 130
1,2-Dichlorobenzene	40.0	34.72		ug/Kg		87	70 - 130
1,2,4-Trichlorobenzene	40.0	36.85		ug/Kg		92	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*94*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 560-192640/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192640

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			40.0	40.95		ug/Kg		102	13 - 130	13	30.0
Chloromethane			40.0	32.52		ug/Kg		81	61 - 137	11	30.0
Vinyl chloride			40.0	37.63		ug/Kg		94	65 - 139	9	30.0
Bromomethane			40.0	36.48		ug/Kg		91	57 - 155	13	30.0
Trichlorofluoromethane			40.0	37.52		ug/Kg		94	68 - 146	13	30.0
Acrolein			395	450.0		ug/Kg		114	20 - 150	16	30.0
1,1-Dichloroethene			40.0	40.79		ug/Kg		102	70 - 130	13	30.0
trans-1,2-Dichloroethene			40.0	40.86		ug/Kg		102	70 - 132	15	30.0
Methyl tert-butyl ether			40.0	44.27		ug/Kg		111	70 - 130	17	30.0
1,3-Dichlorobenzene			40.0	39.74		ug/Kg		99	70 - 130	12	30.0
Methylene Chloride			40.0	38.56		ug/Kg		96	61 - 150	14	30.0
Acrylonitrile			400	428.6		ug/Kg		107	66 - 137	13	30.0
cis-1,2-Dichloroethene			40.0	42.79		ug/Kg		107	70 - 130	16	30.0
Carbon tetrachloride			40.0	38.15		ug/Kg		95	70 - 136	18	30.0
Benzene			40.0	41.87		ug/Kg		105	70 - 131	16	30.0
1,2-Dichloroethane			40.0	36.23		ug/Kg		91	70 - 130	15	30.0
Trichloroethene			40.0	39.85		ug/Kg		100	70 - 130	15	30.0
1,1,1-Trichloroethane			40.0	38.48		ug/Kg		96	70 - 132	19	30.0
1,1-Dichloroethane			40.0	40.81		ug/Kg		102	70 - 130	17	30.0
1,2-Dichloropropane			40.0	41.90		ug/Kg		105	70 - 130	13	30.0
1,4-Dioxane			800	907.5		ug/Kg		113	10 - 150	8	30.0
Chloroform			40.0	38.61		ug/Kg		97	70 - 130	16	30.0
Bromodichloromethane			40.0	41.06		ug/Kg		103	70 - 130	16	30.0
1,1-Dichloropropene			40.0	43.32		ug/Kg		108	70 - 130	16	30.0
cis-1,3-Dichloropropene			40.0	38.69		ug/Kg		97	70 - 130	17	30.0
Toluene			40.0	37.88		ug/Kg		95	70 - 130	16	30.0
trans-1,3-Dichloropropene			40.0	40.99		ug/Kg		102	70 - 131	15	30.0
1,1,2-Trichloroethane			40.0	38.17		ug/Kg		95	70 - 130	13	30.0
Tetrachloroethene			40.0	33.02		ug/Kg		83	70 - 130	19	30.0
1,3-Dichloropropene, Total			80.0	79.68		ug/Kg		100		16	30
1,2-Dibromoethane			40.0	37.63		ug/Kg		94	70 - 130	13	30.0
Monochlorobenzene			40.0	36.20		ug/Kg		90	70 - 130	14	30.0
Ethylbenzene			40.0	40.69		ug/Kg		102	70 - 130	14	30.0
Xylenes, Total			80.0	85.81		ug/Kg		107	70 - 130	15	30.0
Styrene			40.0	41.41		ug/Kg		104	70 - 130	12	30.0
Tribromomethane			40.0	33.15		ug/Kg		83	59 - 137	12	30.0
1,1,2,2-Tetrachloroethane			40.0	44.69		ug/Kg		112	70 - 130	15	30.0
1,4-Dichlorobenzene			40.0	38.17		ug/Kg		95	70 - 130	12	30.0
1,2-Dichlorobenzene			40.0	40.46		ug/Kg		101	70 - 130	15	30.0
1,2,4-Trichlorobenzene			40.0	42.88		ug/Kg		107	68 - 140	15	30.0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*117*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39864/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

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			02/01/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*		*02/01/22 17:15*	*1*

Lab Sample ID: LCS 860-39864/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.04692		mg/Kg		94	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*

Lab Sample ID: LCSD 860-39864/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.04791		mg/Kg		96	65 - 135	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-565562/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565810 — **Prep Batch: 565562**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/04/22 15:17	02/08/22 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*80*		*30 - 164*	*02/04/22 15:17*	*02/08/22 14:41*	*1*

Lab Sample ID: LCS 400-565562/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565810 — **Prep Batch: 565562**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	272.6		ug/Kg		82	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*95*	*	*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-39790/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Diesel Range Organics (Over C10-C28) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Oil Range Organics (Over C28-C36) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane - RA	*105*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*
o-Terphenyl (Surr) - RA	*97*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*

Lab Sample ID: LCS 860-39790/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10 - RA	994	1024		mg/Kg		103	70 - 135
Diesel Range Organics (Over C10-C28) - RA	996	974.9		mg/Kg		98	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane - RA	*107*		*65 - 130*
o-Terphenyl (Surr) - RA	*100*		*65 - 130*

Lab Sample ID: LCSD 860-39790/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10 - RA	994	1028		mg/Kg		103	70 - 135	0	35
Diesel Range Organics (Over C10-C28) - RA	996	1002		mg/Kg		101	70 - 135	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane - RA	*110*		*65 - 130*
o-Terphenyl (Surr) - RA	*103*		*65 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/26/22 08:34	01/26/22 14:18	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/26/22 08:34	01/26/22 14:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*35 - 135*	*01/26/22 08:34*	*01/26/22 14:18*	*1*
DCB Decachlorobiphenyl (Surr)	*115*		*25 - 143*	*01/26/22 08:34*	*01/26/22 14:18*	*1*

Lab Sample ID: LCS 860-38890/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	16.7	19.14		ug/Kg		115	13 - 192
Aldrin	16.7	18.43		ug/Kg		111	30 - 152
Hexachlorocyclohexane, alpha-	16.7	17.42		ug/Kg		105	29 - 160
Hexachlorocyclohexane, beta-	16.7	19.15		ug/Kg		115	30 - 155
Hexachlorocyclohexane, delta-	16.7	17.69		ug/Kg		106	20 - 161
Dieldrin	16.7	19.24		ug/Kg		115	33 - 153
Endosulfan I	16.7	18.57		ug/Kg		111	30 - 151
Endosulfan II	16.7	17.20		ug/Kg		103	27 - 153
Endosulfan sulfate	16.7	18.75		ug/Kg		112	15 - 170
Endrin	16.7	20.31		ug/Kg		122	25 - 162
Endrin aldehyde	16.7	18.29		ug/Kg		110	49 - 117
Hexachlorocyclohexane, gamma-	16.7	18.31		ug/Kg		110	30 - 158
Heptachlor	16.7	18.86		ug/Kg		113	29 - 163
Heptachlor epoxide	16.7	18.26		ug/Kg		110	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

Lab Sample ID: LCSD 860-38890/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT	16.7	18.62		ug/Kg		112	13 - 192	3	25

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-38890/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.7	18.12		ug/Kg		109	30 - 152	2	25
Hexachlorocyclohexane, alpha-			16.7	17.11		ug/Kg		103	29 - 160	2	25
Hexachlorocyclohexane, beta-			16.7	18.75		ug/Kg		113	30 - 155	2	25
Hexachlorocyclohexane, delta-			16.7	17.26		ug/Kg		104	20 - 161	2	25
Dieldrin			16.7	18.81		ug/Kg		113	33 - 153	2	25
Endosulfan I			16.7	18.15		ug/Kg		109	30 - 151	2	25
Endosulfan II			16.7	16.84		ug/Kg		101	27 - 153	2	25
Endosulfan sulfate			16.7	18.21		ug/Kg		109	15 - 170	3	25
Endrin			16.7	19.79		ug/Kg		119	25 - 162	3	25
Endrin aldehyde			16.7	17.90		ug/Kg		107	49 - 117	2	25
Hexachlorocyclohexane, gamma-			16.7	17.85		ug/Kg		107	30 - 158	3	25
Heptachlor			16.7	18.53		ug/Kg		111	29 - 163	2	25
Heptachlor epoxide			16.7	17.76		ug/Kg		107	30 - 150	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*35 - 140*	*01/26/22 08:34*	*01/26/22 14:24*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 142*	*01/26/22 08:34*	*01/26/22 14:24*	*1*

Lab Sample ID: LCS 860-38890/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016			0.167	0.1416		mg/Kg		85	27 - 121
Aroclor 1260			0.167	0.1484		mg/Kg		89	27 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*35 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-38890/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	86		37 - 142

Lab Sample ID: LCSD 860-38890/5-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1363		mg/Kg		82	27 - 121	4	20
Aroclor 1260			0.167	0.1452		mg/Kg		87	27 - 139	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	67		35 - 140
DCB Decachlorobiphenyl (Surr)	87		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565272/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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		02/05/22 11:25	02/10/22 06:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 06:07	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/05/22 11:25	02/10/22 06:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	02/05/22 11:25	02/10/22 06:07	1

Lab Sample ID: LCS 280-565272/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.9312		mg/Kg		93	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9739		mg/Kg		97	80 - 124
2,4,6-Trinitrotoluene			1.00	0.9953		mg/Kg		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	99		83 - 122

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-39027/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 38814 — **Prep Batch: 39027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/26/22 18:46	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/26/22 18:46	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/26/22 18:46	1

Lab Sample ID: MB 860-39027/28-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 38814 — **Prep Batch: 39027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/26/22 23:31	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/26/22 23:31	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/26/22 23:31	1

Lab Sample ID: MB 860-39027/57-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 38814 — **Prep Batch: 39027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrite as N	0.08762	J	1.00	0.0500	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrate Nitrite as N	0.1812	J	1.00	0.00500	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/27/22 06:39	1

Lab Sample ID: LCS 860-39027/58-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 38814 — **Prep Batch: 39027**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	103.2		mg/Kg		103	80 - 120
Nitrate as N	100	96.19		mg/Kg		96	80 - 120
Fluoride	100	100.1		mg/Kg		100	80 - 120
Nitrite as N	50.0	48.60		mg/Kg		97	80 - 120
Sulfate	100	95.71		mg/Kg		96	80 - 120

Lab Sample ID: LCSD 860-39027/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 38814 — **Prep Batch: 39027**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	103.9		mg/Kg		104	80 - 120	0	20
Fluoride	100	101.5		mg/Kg		101	80 - 120	0	20
Sulfate	100	97.19		mg/Kg		97	80 - 120	0	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-39027/59-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38814 **Prep Batch: 39027**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	99.30		mg/Kg		99	80 - 120	4	20
Nitrate as N			100	93.62		mg/Kg		94	80 - 120	3	20
Fluoride			100	97.49		mg/Kg		97	80 - 120	3	20
Nitrite as N			50.0	47.43		mg/Kg		95	80 - 120	2	20
Sulfate			100	93.07		mg/Kg		93	80 - 120	3	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 564802

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.0500	0.04711	J	ug/L		94	70 - 130		

Lab Sample ID: MB 280-565161/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565540 **Prep Batch: 565161**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:01	1

Lab Sample ID: LCS 280-565161/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565540 **Prep Batch: 565161**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.500	0.5047		ug/Kg		101	80 - 120		

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 556129

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorooctanoic acid (PFOA)			0.500	0.490	U	ug/L		94	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)			0.455	0.4417	J	ug/L		97	70 - 130		
Perfluorooctanesulfonic acid (PFOS)			0.464	0.665	U	ug/L		95	70 - 130		

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 280-565681/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566232 **Prep Batch: 565681**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/10/22 11:04	02/16/22 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/10/22 11:04*	*02/16/22 11:21*	*1*
13C8 PFOS	*107*		*70 - 130*	*02/10/22 11:04*	*02/16/22 11:21*	*1*

Lab Sample ID: LCS 280-565681/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566232 **Prep Batch: 565681**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	20.31		ug/Kg		102	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	18.45		ug/Kg		101	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.74		ug/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*108*		*70 - 130*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-39983/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40322 **Prep Batch: 39983**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/02/22 12:56	02/04/22 12:37	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-39983/2-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	5.00	4.950		mg/Kg		99	80 - 120
Arsenic	10.0	10.41		mg/Kg		104	80 - 120
Barium	10.0	9.918		mg/Kg		99	80 - 120
Beryllium	10.0	10.08		mg/Kg		101	80 - 120
Cadmium	10.0	10.42		mg/Kg		104	80 - 120
Chromium	10.0	10.57		mg/Kg		106	80 - 120
Copper	10.0	10.37		mg/Kg		104	80 - 120
Iron	50.0	52.35		mg/Kg		105	80 - 120
Manganese	10.0	10.93		mg/Kg		109	80 - 120
Lead	10.0	9.971		mg/Kg		100	80 - 120
Antimony	10.0	9.820		mg/Kg		98	80 - 120
Selenium	10.0	10.46		mg/Kg		105	80 - 120
Thallium	10.0	9.997		mg/Kg		100	80 - 120
Uranium	2.50	2.407		mg/Kg		96	80 - 120
Zinc	10.0	11.99		mg/Kg		120	80 - 120

Lab Sample ID: LCSD 860-39983/3-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39983

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.90	4.888		mg/Kg		100	80 - 120	1	20
Arsenic	9.80	10.36		mg/Kg		106	80 - 120	0	20
Barium	9.80	9.905		mg/Kg		101	80 - 120	0	20
Beryllium	9.80	10.11		mg/Kg		103	80 - 120	0	20
Cadmium	9.80	10.29		mg/Kg		105	80 - 120	1	20
Chromium	9.80	10.30		mg/Kg		105	80 - 120	3	20
Copper	9.80	10.18		mg/Kg		104	80 - 120	2	20
Iron	49.0	51.04		mg/Kg		104	80 - 120	3	20
Manganese	9.80	10.60		mg/Kg		108	80 - 120	3	20
Lead	9.80	9.940		mg/Kg		101	80 - 120	0	20
Antimony	9.80	9.828		mg/Kg		100	80 - 120	0	20
Selenium	9.80	10.36		mg/Kg		106	80 - 120	1	20
Thallium	9.80	9.988		mg/Kg		102	80 - 120	0	20
Uranium	2.45	2.417		mg/Kg		99	80 - 120	0	20
Zinc	9.80	11.39		mg/Kg		116	80 - 120	5	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39207/10-A
Matrix: Solid
Analysis Batch: 39396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00356	U	0.0185	0.00356	mg/Kg		01/28/22 08:00	01/28/22 12:43	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 860-39207/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39207**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.192	0.2007		mg/Kg		104	80 - 120

Lab Sample ID: LCSD 860-39207/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39207**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.192	0.1950		mg/Kg		101	80 - 120	3	20

Lab Sample ID: 860-19738-2 MS — **Client Sample ID: Cell19-Square 94-S-3-4-220125**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39207**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00769	J	0.182	0.1789		mg/Kg		94	75 - 125

Lab Sample ID: 860-19738-2 MSD — **Client Sample ID: Cell19-Square 94-S-3-4-220125**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39207**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00769	J	0.175	0.1743		mg/Kg		95	75 - 125	3	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40711/16-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/08/22 15:02	02/08/22 16:20	1

Lab Sample ID: MB 860-40711/3-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/08/22 15:02	02/08/22 15:59	1

Lab Sample ID: LCS 860-40711/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	101.9		ug/Kg		102	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LLCS 860-40711/18-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			50.0	52.87		ug/Kg		106	90 - 110		

Lab Sample ID: 860-19738-1 MS — **Client Sample ID: Cell19-Square 123-S-3-4-220125**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	34.0	J	2400	1595	N1	ug/Kg		65	90 - 110		

Lab Sample ID: 860-19738-1 MSD — **Client Sample ID: Cell19-Square 123-S-3-4-220125**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	34.0	J	2390	1578	N1	ug/Kg		64	90 - 110	1	20

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-42223/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 12:48	1

Lab Sample ID: LCS 860-42223/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenols, Total			1.00	0.9730		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 860-42223/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total			1.00	0.9910		mg/Kg		99	90 - 110	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193206/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/15/22 15:10	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 560-193206/2 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	2250	2124		mg/L		94	90 - 110

Lab Sample ID: 860-19738-1 DU **Client Sample ID: Cell19-Square 123-S-3-4-220125**
Matrix: Solid **Prep Type: 7 Day Leach**
Analysis Batch: 193206

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	206		204.0		mg/L		1	20

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: LCS 160-549553/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 552706 **Prep Batch: 549553**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.2	96.60		11.6		1.13	pCi/g	100	75 - 125
Cesium-137	26.0	26.44		3.22		0.201	pCi/g	102	75 - 125
Cobalt-60	8.07	8.469		1.06		0.145	pCi/g	105	75 - 125

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	5035	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	5035	

Analysis Batch: 39864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8260D SIM	39768
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8260D SIM	39768
MB 860-39864/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-39864/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-39864/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8260B	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8260B	
MB 560-192640/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192640/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192640/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	3550C	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	3550C	

Analysis Batch: 39315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8270D	39007
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8270D	39007

Prep Batch: 565562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	3546	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	3546	
MB 400-565562/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 565810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8270D	565562
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8270D	565562
MB 400-565562/1-A	Method Blank	Total/NA	Solid	8270D	565562
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	8270D	565562

GC Semi VOA

Prep Batch: 38890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	3550C	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	3550C	
MB 860-38890/1-A	Method Blank	Total/NA	Solid	3550C	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Prep Batch: 38890 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 38895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8081B	38890
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	8081B	38890
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	38890

Analysis Batch: 38913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8082A	38890
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	8082A	38890
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	38890

Analysis Batch: 39187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8082A	38890
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8082A	38890

Analysis Batch: 39319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8081B	38890
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8081B	38890

Analysis Batch: 39733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8015B NM	39790
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8015B NM	39790

Prep Batch: 39790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8015NM Prep	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8015NM Prep	
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015B NM	39790
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015B NM	39790
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39790

HPLC/IC

Analysis Batch: 38814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	9056A	39027

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Analysis Batch: 38814 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	9056A	39027
MB 860-39027/1-A	Method Blank	Total/NA	Solid	9056A	39027
MB 860-39027/28-A	Method Blank	Total/NA	Solid	9056A	39027
MB 860-39027/57-A	Method Blank	Total/NA	Solid	9056A	39027
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	9056A	39027
LCSD 860-39027/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027

Analysis Batch: 38815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	9056A	39027
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	9056A	39027
MB 860-39027/57-A	Method Blank	Total/NA	Solid	9056A	39027
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	9056A	39027
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027

Prep Batch: 39027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	300_Prep	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	300_Prep	
MB 860-39027/1-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-39027/28-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-39027/57-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-39027/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Drying Batch: 564725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	Prep/Air Dry	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8330B	564725
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8330B	564725
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 565637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8330B	565272
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8330B	565272
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	565272
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	565272

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

LCMS

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	6860	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	6860	
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	6860	565161
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	6860	565161
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	565161
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	565161

Prep Batch: 565681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	PFC leach	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	PFC leach	
MB 280-565681/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 566232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	DV-LC-0012	565681
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	DV-LC-0012	565681
MB 280-565681/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565681
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565681

Metals

Prep Batch: 39207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	7471A	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	7471A	
MB 860-39207/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39207/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39207/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-19738-2 MS	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	7471A	
860-19738-2 MSD	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	7471A	

Analysis Batch: 39396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	7471A	39207
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	7471A	39207
MB 860-39207/10-A	Method Blank	Total/NA	Solid	7471A	39207
LCS 860-39207/11-A	Lab Control Sample	Total/NA	Solid	7471A	39207
LCSD 860-39207/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39207
860-19738-2 MS	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	7471A	39207
860-19738-2 MSD	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	7471A	39207

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Prep Batch: 39983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	3051A	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	3051A	
MB 860-39983/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-39983/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-39983/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 40322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	6020A	39983
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	6020A	39983
MB 860-39983/1-A	Method Blank	Total/NA	Solid	6020A	39983
LCS 860-39983/2-A	Lab Control Sample	Total/NA	Solid	6020A	39983
LCSD 860-39983/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	39983

General Chemistry

Analysis Batch: 39359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	Moisture - 2540	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	Moisture - 2540	
MB 860-39359/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Leach Batch: 40687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Soluble	Solid	DI Leach	
860-19738-2	Cell19-Square 94-S-3-4-220125	Soluble	Solid	DI Leach	

Prep Batch: 40711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	9012A	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	9012A	
MB 860-40711/16-A	Method Blank	Total/NA	Solid	9012A	
MB 860-40711/3-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40711/4-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40711/18-A	Lab Control Sample	Total/NA	Solid	9012A	
860-19738-1 MS	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	9012A	
860-19738-1 MSD	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	9012A	

Analysis Batch: 40717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Soluble	Solid	9045D	40687
860-19738-2	Cell19-Square 94-S-3-4-220125	Soluble	Solid	9045D	40687

Analysis Batch: 40738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	9012A	40711
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	9012A	40711
MB 860-40711/16-A	Method Blank	Total/NA	Solid	9012A	40711
MB 860-40711/3-A	Method Blank	Total/NA	Solid	9012A	40711
LCS 860-40711/4-A	Lab Control Sample	Total/NA	Solid	9012A	40711
LLCS 860-40711/18-A	Lab Control Sample	Total/NA	Solid	9012A	40711

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry (Continued)

Analysis Batch: 40738 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1 MS	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	9012A	40711
860-19738-1 MSD	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	9012A	40711

Prep Batch: 42223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	Distill/Phenol	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	Distill/Phenol	
MB 860-42223/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 42401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	9066	42223
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	9066	42223
MB 860-42223/1-A	Method Blank	Total/NA	Solid	9066	42223
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	9066	42223
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	42223

Leach Batch: 193204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	7 Day Leach	Solid	335.521	
860-19738-2	Cell19-Square 94-S-3-4-220125	7 Day Leach	Solid	335.521	
860-19738-1 DU	Cell19-Square 123-S-3-4-220125	7 Day Leach	Solid	335.521	

Analysis Batch: 193206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	7 Day Leach	Solid	SM 2540C	193204
860-19738-2	Cell19-Square 94-S-3-4-220125	7 Day Leach	Solid	SM 2540C	193204
MB 560-193206/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193206/2	Lab Control Sample	Total/NA	Solid	SM 2540C	
860-19738-1 DU	Cell19-Square 123-S-3-4-220125	7 Day Leach	Solid	SM 2540C	193204

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	Dry and Grind	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	Dry and Grind	

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	Fill_Geo-21	549041
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	Fill_Geo-21	549041
LCS 160-549553/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 123-S-3-4-220125 **Lab Sample ID: 860-19738-1**
Date Collected: 01/25/22 11:20 **Matrix: Solid**
Date Received: 01/26/22 11:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.37 g	5 mL	192640	01/27/22 20:13	RJD	XEN CC
Total/NA	Prep	5035			4.99 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 18:43	EM	XEN STF
Total/NA	Prep	3550C			30.06 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39315	01/28/22 18:07	LPL	XEN STF
Total/NA	Prep	3546			15.14 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 18:07	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	39790	02/01/22 12:49	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39733	02/01/22 22:28	T1S	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			39319	01/28/22 13:21	WP	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			39187	01/27/22 20:21	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.35 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 10:20	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.97 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38814	01/27/22 11:49	ANP	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38815	01/27/22 11:49	ANP	XEN STF
Total/NA	Prep	6860			10.6 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 18:48	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.37 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 12:14	AGCM	TAL DEN
Total/NA	Prep	3051A			.58 g	50 mL	39983	02/02/22 12:57	PB	XEN STF
Total/NA	Analysis	6020A		10			40322	02/04/22 13:24	DCL	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	39207	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 12:57	SHZ	XEN STF
Total/NA	Prep	9012A			0.5163 g	6 mL	40711	02/08/22 15:02	CM1	XEN STF
Total/NA	Analysis	9012A		1			40738	02/08/22 16:44	CM1	XEN STF
Soluble	Leach	DI Leach			20.01 g	20 mL	40687	02/08/22 12:55	TL	XEN STF
Soluble	Analysis	9045D		1	20.01 g	20 mL	40717	02/08/22 15:18	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:11	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			316.4000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552706	02/28/22 10:21	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 94-S-3-4-220125
Lab Sample ID: 860-19738-2
Date Collected: 01/25/22 11:55
Matrix: Solid
Date Received: 01/26/22 11:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.52 g	5 mL	192640	01/27/22 20:39	RJD	XEN CC
Total/NA	Prep	5035			496 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 19:04	EM	XEN STF
Total/NA	Prep	3550C			30.01 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39315	01/28/22 18:28	LPL	XEN STF
Total/NA	Prep	3546			15.09 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 18:33	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	39790	02/01/22 12:49	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39733	02/01/22 22:48	T1S	XEN STF
Total/NA	Prep	3550C			30.06 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			39319	01/28/22 15:50	WP	XEN STF
Total/NA	Prep	3550C			30.06 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			39187	01/27/22 20:30	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.80 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 10:43	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.06 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38814	01/27/22 12:01	ANP	XEN STF
Total/NA	Prep	300_Prep			5.06 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38815	01/27/22 12:01	ANP	XEN STF
Total/NA	Prep	6860			10.48 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:08	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.8 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 12:23	AGCM	TAL DEN
Total/NA	Prep	3051A			.57 g	50 mL	39983	02/02/22 12:57	PB	XEN STF
Total/NA	Analysis	6020A		10			40322	02/04/22 13:27	DCL	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	39207	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 12:47	SHZ	XEN STF
Total/NA	Prep	9012A			0.4832 g	6 mL	40711	02/08/22 15:02	CM1	XEN STF
Total/NA	Analysis	9012A		1			40738	02/08/22 16:51	CM1	XEN STF
Soluble	Leach	DI Leach			20.00 g	20 mL	40687	02/08/22 12:55	TL	XEN STF
Soluble	Analysis	9045D		1	20.00 g	20 mL	40717	02/08/22 15:18	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:25	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			342.0000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552703	02/28/22 10:22	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

Laboratory: Eurofins St. Louis

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

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

Job ID: 860-19738-1

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19738-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19738-1	Cell19-Square 123-S-3-4-220125	Solid	01/25/22 11:20	01/26/22 11:22
860-19738-2	Cell19-Square 94-S-3-4-220125	Solid	01/25/22 11:55	01/26/22 11:22

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Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Cory Rodriguez	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-631-3011	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 -1
Company: ARCADIS U.S. Inc.				Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Standard			
State, Zip: CO, 80129-2377	PO #:			
Phone: 303-710-7537(Tel)	WO #:			
Email: Alison.Schaffer@arcadis.com	Project #: 86002103			
Project Name: Chevron Jal Land Farm Soils	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B- Volatiles	8270C- Semivolatiles/ 8081 Pesticides/ 8082 PCB	6860 Perchlorate-Ddenver- soil jar 4 oz	8330B Denver - soil jar 4 oz	PFC Denver- plastic 16 oz jar	8270D_AgChem -Pensacola soil jar 4 oz	2540C_Calcd Local Method/ Moisture/ pH 9045	8015B_GRO	8015_DRO/ORO	GA-01_R_ra- Rad 226/228- St Louis- 2 plastic jars 16	9056- Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate; Fluoride	6020/7471- St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
Cell19-Square123-S-3-4-220125	1/25/22	1120	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
Cell19-Square94-S-3-4-220125	1/25/22	1155	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

860-19738 Chain of Custody

Temp: 4(.5 IR ID:HOU-323
C/F:+0.2
Corrected Temp: 4(.7

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by: Cory Rodriguez	Date/Time: 1/25/22 1700	Company: Arcadis	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Linda	Date/Time: 1/26/22 1122	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver. 01/16/2019

Received by OCD: 9/12/2022 9:41:21 AM
Page 51 of 62
2/28/2022
Released to Imaging: 10/28/2022 10:00:56 AM

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9688.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19738-1
Address: 13715 Rider Trail North,	Due Date Requested: 2/14/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell19-Square 123-5-3-4-220125 (860-19738-1)	1/25/22	11:20 Central		Solid			X	1	
Cell19-Square 94-5-3-4-220125 (860-19738-2)	1/25/22	11:55 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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Linda	1/26/22		FED EX		
Relinquished by: FED EX	Date/Time:	Company	Received by: Autumn R. Johnson	Date/Time: JAN 28 2022 1122	Company ETA STL
Relinquished by:	Date/Time:	Company			

Custody Seals Intact: Δ Yes Δ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9687.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19738-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/11/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6860/8860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell19-Square 123-5-3-4-220125 (860-19738-1)	1/25/22	11:20 Central		Solid			X	X	X	2	
Cell19-Square 94-5-3-4-220125 (860-19738-2)	1/25/22	11:55 Central		Solid			X	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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				1/27/22 1005	ETADEN
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: 1.4 IR13 CF-0.2

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9686.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-19738-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 2/14/2022			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell19-Square 123-5-3-4-220125 (860-19738-1)	1/25/22	11:20 Central		Solid			X	1	
Cell19-Square 94-5-3-4-220125 (860-19738-2)	1/25/22	11:55 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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1-27-22/1921	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.0°C IR8

Ver: 06/08/2021

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Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9685.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19738-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/11/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B_Solid (MOD) mod	2540C/TX_7Day_T	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square 123-5-3-4-220125 (860-19738-1)	1/25/22	11:20 Central		Solid			X	X	1	
Cell19-Square 94-5-3-4-220125 (860-19738-2)	1/25/22	11:55 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Cinda	1/26/22		Caitlyn Lowder	01/27/2022 1320	Ex
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: 2.9 C6 IR-10 2.8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19738-1

Login Number: 19738 **List Source: Eurofins Houston**
List Number: 1
Creator: Torrez, Lisandra

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	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19738-1

Login Number: 19738 **List Source: Eurofins Houston**
List Number: 2
Creator: Torrez, Lisandra

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19738-1

Login Number: 19738 **List Source: Eurofins Corpus Christi**
List Number: 3 **List Creation: 01/27/22 01:39 PM**
Creator: Forrester, Caitlyn D

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.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19738-1

Login Number: 19738 **List Source: Eurofins Denver**
List Number: 5 **List Creation: 01/27/22 04:37 PM**
Creator: Rystrom, Joshua R

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	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	COC not relinquished.
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").	True	
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: 860-19738-1

Login Number: 19738 **List Source: Eurofins Pensacola**
List Number: 4 **List Creation: 01/27/22 04:55 PM**
Creator: Whitley, Adrian

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	0.0°C IR8
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: 860-19738-1

Login Number: 19738 **List Source: Eurofins St. Louis**
List Number: 6 **List Creation: 02/01/22 12:03 PM**
Creator: Johnson, Autumn R

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	
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.	N/A	

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ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19745-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
2/28/2022 5:53:11 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

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

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

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

Laboratory Job ID: 860-19745-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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
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 Semi VOA

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

HPLC/IC

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.

LCMS

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding 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.

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	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.
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.
¤	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)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19745-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19745-1

Receipt
The samples were received on 1/26/2022 11:22 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 2.7°C

GC/MS VOA
Method 8260B: The following analyte recovered outside control limits for the LCS associated with analytical batch 560-192640: Tetrachloroethene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been 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_AgChem: Internal standard (ISTD) response for Prometon for the following samples in analytical batch 400-565810 was outside acceptance criteria: Cell18-Square 180-S-3-4-220125 (860-19745-1), Cell18-Square 34-S-3-4-220125 (860-19745-2), (LCS 400-565562/2-A), (MB 400-565562/1-A), (860-19619-G-1-C), (860-19619-G-1-A MS) and (860-19619-G-1-B MSD). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

Method 8270D: Surrogate recovery for the following samples were outside the upper control limit: Cell18-Square 180-S-3-4-220125 (860-19745-1) and Cell18-Square 34-S-3-4-220125 (860-19745-2). 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.

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

PCBs
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_48H: The method blank for preparation batch 860-39027 and analytical batch 860-38815 contained nitrite above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction <and_or> re-analysis of samples was not performed.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell18-Square 180-S-3-4-220125 (860-19745-1) and Cell18-Square 34-S-3-4-220125 (860-19745-2) in preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell18-Square 180-S-3-4-220125 (860-19745-1) and Cell18-Square 34-S-3-4-220125 (860-19745-2). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell18-Square 180-S-3-4-220125 (860-19745-1) and Cell18-Square 34-S-3-4-220125 (860-19745-2) in preparation batch 280-564725 and 280-565272 by

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19745-1 (Continued)

Laboratory: Eurofins Houston (Continued)

8330B_Sonc_10g for 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

Method PFC: In preparation batch 280-565681, the following samples were re-prepared outside of preparation holding time due to the samples in the original batch being extracted but not filtered and sent on to the instrument analyst: Cell18-Square 180-S-3-4-220125 (860-19745-1) and Cell18-Square 34-S-3-4-220125 (860-19745-2). Method PFC_Leach/PFC.

Method PFC: During pH adjustment, the following samples required 3 mL of acid to reach the desired pH: Cell18-Square 180-S-3-4-220125 (860-19745-1). Most samples take less than 1 mL to reach the desired range preparation batch 280-565681. Method:PFC

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

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 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 AnalyteTh-234 Pa-234Th-234 U-238Pb-210 Po-210 Pb-210 Bi-210Cs-137 Ba-137mPb-212 Po-216Xe-131m Xe-131Sb-125 Te-125mAg-108m Ag-108Rh-106 Ru-106Pb-212 Th-228Pb-212 Ra-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. Cell18-Square 180-S-3-4-220125 (860-19745-1), Cell18-Square 34-S-3-4-220125 (860-19745-2), (LCS 160-549553/2-A), (MB 160-549553/1-A), (860-19990-D-2-B) and (860-19990-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 180-S-3-4-220125 — Lab Sample ID: 860-19745-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.37	J	9.84	3.48	mg/Kg	1		9056A	Total/NA
Nitrate as N	11.9		0.984	0.106	mg/Kg	1		9056A	Total/NA
Fluoride	6.38		4.92	0.984	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.135	J b	0.984	0.0492	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	12.1	b	0.984	0.00492	mg/Kg	1		9056A	Total/NA
Sulfate	105		9.84	4.25	mg/Kg	1		9056A	Total/NA
Arsenic	1.82	J	3.57	0.551	mg/Kg	10		6020A	Total/NA
Barium	232		3.57	0.310	mg/Kg	10		6020A	Total/NA
Chromium	2.08	J	3.57	0.242	mg/Kg	10		6020A	Total/NA
Copper	0.986	J	3.57	0.233	mg/Kg	10		6020A	Total/NA
Iron	1710		17.9	2.09	mg/Kg	10		6020A	Total/NA
Manganese	17.7		1.79	0.227	mg/Kg	10		6020A	Total/NA
Lead	1.15	J	1.79	0.173	mg/Kg	10		6020A	Total/NA
Antimony	0.140	J	1.79	0.106	mg/Kg	10		6020A	Total/NA
Uranium	0.295	J	0.893	0.0534	mg/Kg	10		6020A	Total/NA
Zinc	8.37		3.57	0.395	mg/Kg	10		6020A	Total/NA
Mercury	0.00540	J	0.0200	0.00384	mg/Kg	1		7471A	Total/NA
pH	9.2	HF			SU	1		9045D	Soluble
Total Dissolved Solids	148		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell18-Square 34-S-3-4-220125 — Lab Sample ID: 860-19745-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	24.0		10.1	3.59	mg/Kg	1		9056A	Total/NA
Nitrate as N	21.2		1.01	0.110	mg/Kg	1		9056A	Total/NA
Fluoride	7.90		5.07	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.117	J b	1.01	0.0507	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	21.4	b	1.01	0.00507	mg/Kg	1		9056A	Total/NA
Sulfate	159		10.1	4.38	mg/Kg	1		9056A	Total/NA
Perchlorate	0.104	J	0.486	0.0802	ug/Kg	1		6860	Total/NA
Arsenic	3.43	J	3.85	0.593	mg/Kg	10		6020A	Total/NA
Barium	216		3.85	0.334	mg/Kg	10		6020A	Total/NA
Chromium	2.80	J	3.85	0.261	mg/Kg	10		6020A	Total/NA
Copper	1.58	J	3.85	0.251	mg/Kg	10		6020A	Total/NA
Iron	2420		19.2	2.25	mg/Kg	10		6020A	Total/NA
Manganese	20.7		1.92	0.245	mg/Kg	10		6020A	Total/NA
Lead	1.41	J	1.92	0.186	mg/Kg	10		6020A	Total/NA
Antimony	0.142	J	1.92	0.114	mg/Kg	10		6020A	Total/NA
Uranium	0.446	J	0.962	0.0575	mg/Kg	10		6020A	Total/NA
Zinc	10.4		3.85	0.426	mg/Kg	10		6020A	Total/NA
Mercury	0.00750	J	0.0192	0.00370	mg/Kg	1		7471A	Total/NA
Cyanide, Total	32.0	J	60.8	30.1	ug/Kg	1		9012A	Total/NA
pH	9.1	HF			SU	1		9045D	Soluble
Total Dissolved Solids	213		10.0	10.0	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. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 180-S-3-4-220125 **Lab Sample ID: 860-19745-1**
Date Collected: 01/25/22 08:35 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.720	U	4.93	0.720	ug/Kg			01/27/22 21:04	1
Chloromethane	1.18	U	4.93	1.18	ug/Kg			01/27/22 21:04	1
Vinyl chloride	0.592	U	4.93	0.592	ug/Kg			01/27/22 21:04	1
Bromomethane	1.08	U	4.93	1.08	ug/Kg			01/27/22 21:04	1
Trichlorofluoromethane	0.493	U	4.93	0.493	ug/Kg			01/27/22 21:04	1
Acrolein	8.48	U	49.3	8.48	ug/Kg			01/27/22 21:04	1
1,1-Dichloroethene	0.493	U	4.93	0.493	ug/Kg			01/27/22 21:04	1
trans-1,2-Dichloroethene	0.493	U	4.93	0.493	ug/Kg			01/27/22 21:04	1
Methyl tert-butyl ether	0.602	U	4.93	0.602	ug/Kg			01/27/22 21:04	1
1,3-Dichlorobenzene	0.306	U	4.93	0.306	ug/Kg			01/27/22 21:04	1
Methylene Chloride	4.93	U	24.7	4.93	ug/Kg			01/27/22 21:04	1
Acrylonitrile	3.55	U	49.3	3.55	ug/Kg			01/27/22 21:04	1
cis-1,2-Dichloroethene	0.562	U	4.93	0.562	ug/Kg			01/27/22 21:04	1
Carbon tetrachloride	0.503	U	4.93	0.503	ug/Kg			01/27/22 21:04	1
Benzene	0.621	U	4.93	0.621	ug/Kg			01/27/22 21:04	1
1,2-Dichloroethane	0.513	U	4.93	0.513	ug/Kg			01/27/22 21:04	1
Trichloroethene	0.276	U	4.93	0.276	ug/Kg			01/27/22 21:04	1
1,1,1-Trichloroethane	0.493	U	4.93	0.493	ug/Kg			01/27/22 21:04	1
1,1-Dichloroethane	0.582	U	4.93	0.582	ug/Kg			01/27/22 21:04	1
1,2-Dichloropropane	0.493	U	4.93	0.493	ug/Kg			01/27/22 21:04	1
1,4-Dioxane	18.7	U	98.6	18.7	ug/Kg			01/27/22 21:04	1
Chloroform	0.858	U	4.93	0.858	ug/Kg			01/27/22 21:04	1
Bromodichloromethane	0.197	U	4.93	0.197	ug/Kg			01/27/22 21:04	1
1,1-Dichloropropene	0.513	U	4.93	0.513	ug/Kg			01/27/22 21:04	1
cis-1,3-Dichloropropene	0.444	U	4.93	0.444	ug/Kg			01/27/22 21:04	1
Toluene	0.888	U	4.93	0.888	ug/Kg			01/27/22 21:04	1
trans-1,3-Dichloropropene	0.513	U	4.93	0.513	ug/Kg			01/27/22 21:04	1
1,1,2-Trichloroethane	0.493	U	4.93	0.493	ug/Kg			01/27/22 21:04	1
Tetrachloroethene	0.730	U *	4.93	0.730	ug/Kg			01/27/22 21:04	1
1,3-Dichloropropene, Total	0.513	U	4.93	0.513	ug/Kg			01/27/22 21:04	1
1,2-Dibromoethane	0.296	U	4.93	0.296	ug/Kg			01/27/22 21:04	1
Monochlorobenzene	0.296	U	4.93	0.296	ug/Kg			01/27/22 21:04	1
Ethylbenzene	0.444	U	4.93	0.444	ug/Kg			01/27/22 21:04	1
Xylenes, Total	0.493	U	9.86	0.493	ug/Kg			01/27/22 21:04	1
Styrene	0.296	U	4.93	0.296	ug/Kg			01/27/22 21:04	1
Tribromomethane	0.503	U	4.93	0.503	ug/Kg			01/27/22 21:04	1
1,1,2,2-Tetrachloroethane	0.375	U	4.93	0.375	ug/Kg			01/27/22 21:04	1
1,4-Dichlorobenzene	0.316	U	4.93	0.316	ug/Kg			01/27/22 21:04	1
1,2-Dichlorobenzene	0.247	U	4.93	0.247	ug/Kg			01/27/22 21:04	1
1,2,4-Trichlorobenzene	0.957	U	4.93	0.957	ug/Kg			01/27/22 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*		*01/27/22 21:04*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 21:04*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 136*		*01/27/22 21:04*	*1*
4-Bromofluorobenzene (Surr)	*112*		*61 - 142*		*01/27/22 21:04*	*1*

Method: 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	0.00501	0.00251	mg/Kg		02/01/22 11:08	02/01/22 19:26	1

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Client Sample Results

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

Job ID: 860-19745-1

Client Sample ID: Cell18-Square 180-S-3-4-220125

Date Collected: 01/25/22 08:35
Date Received: 01/26/22 11:22

Lab Sample ID: 860-19745-1

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*94*		*63 - 144*	*02/01/22 11:08*	*02/01/22 19:26*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.9	U	65.2	11.9	ug/Kg		02/04/22 15:17	02/08/22 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*81*	*	*30 - 164*	*02/04/22 15:17*	*02/08/22 18:58*	*1*

Method: 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		01/27/22 07:14	01/28/22 18:48	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/28/22 18:48	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 180-S-3-4-220125 **Lab Sample ID: 860-19745-1**
Date Collected: 01/25/22 08:35 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/27/22 07:14	01/28/22 18:48	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/27/22 07:14	01/28/22 18:48	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*	*01/27/22 07:14*	*01/28/22 18:48*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*111*		*30 - 115*	*01/27/22 07:14*	*01/28/22 18:48*	*1*
2-Fluorophenol	*100*		*25 - 121*	*01/27/22 07:14*	*01/28/22 18:48*	*1*
2,4,6-Tribromophenol	*124*	*X*	*19 - 122*	*01/27/22 07:14*	*01/28/22 18:48*	*1*
Nitrobenzene-d5	*99*		*23 - 129*	*01/27/22 07:14*	*01/28/22 18:48*	*1*
Phenol-d5 (Surr)	*100*		*24 - 113*	*01/27/22 07:14*	*01/28/22 18:48*	*1*
p-Terphenyl-d14 (Surr)	*129*		*18 - 137*	*01/27/22 07:14*	*01/28/22 18:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 18:41	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 18:41	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*65 - 130*	*02/01/22 12:48*	*02/02/22 18:41*	*1*
o-Terphenyl (Surr)	*97*		*65 - 130*	*02/01/22 12:48*	*02/02/22 18:41*	*1*

Method: 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		01/26/22 08:34	01/28/22 16:03	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/26/22 08:34	01/28/22 16:03	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 180-S-3-4-220125 **Lab Sample ID: 860-19745-1**
Date Collected: 01/25/22 08:35 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Heptachlor epoxide	0.245	U	0.832	0.245	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/26/22 08:34	01/28/22 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*35 - 135*	*01/26/22 08:34*	*01/28/22 16:03*	*1*
DCB Decachlorobiphenyl (Surr)	*63*		*25 - 143*	*01/26/22 08:34*	*01/28/22 16:03*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:40	1
Aroclor 1221	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:40	1
Aroclor 1232	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:40	1
Aroclor 1242	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:40	1
Aroclor 1248	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:40	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 20:40	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*48*		*35 - 140*	*01/26/22 08:34*	*01/27/22 20:40*	*1*
DCB Decachlorobiphenyl (Surr)	*125*		*37 - 142*	*01/26/22 08:34*	*01/27/22 20:40*	*1*

Method: 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	0.0213	U	0.0939	0.0213	mg/Kg		02/05/22 11:25	02/10/22 11:05	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0404	U	0.188	0.0404	mg/Kg		02/05/22 11:25	02/10/22 11:05	1
2,4,6-Trinitrotoluene	0.0288	U	0.0939	0.0288	mg/Kg		02/05/22 11:25	02/10/22 11:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*107*		*83 - 122*	*02/05/22 11:25*	*02/10/22 11:05*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.37**	**J**	9.84	3.48	mg/Kg		01/26/22 15:18	01/27/22 12:13	1
Nitrate as N	**11.9**		0.984	0.106	mg/Kg		01/26/22 15:18	01/27/22 12:13	1
Fluoride	**6.38**		4.92	0.984	mg/Kg		01/26/22 15:18	01/27/22 12:13	1
Nitrite as N	**0.135**	**J b**	0.984	0.0492	mg/Kg		01/26/22 15:18	01/27/22 12:13	1
Nitrate Nitrite as N	**12.1**	**b**	0.984	0.00492	mg/Kg		01/26/22 15:18	01/27/22 12:13	1
Sulfate	**105**		9.84	4.25	mg/Kg		01/26/22 15:18	01/27/22 12:13	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0779	U	0.473	0.0779	ug/Kg		02/03/22 17:49	02/08/22 19:13	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.219	U H	0.761	0.219	ug/Kg		02/10/22 11:04	02/16/22 12:31	1
Perfluorohexanesulfonic acid (PFHxS)	0.266	U H	0.761	0.266	ug/Kg		02/10/22 11:04	02/16/22 12:31	1
Perfluorooctanesulfonic acid (PFOS)	0.133	U H	0.761	0.133	ug/Kg		02/10/22 11:04	02/16/22 12:31	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 180-S-3-4-220125 **Lab Sample ID: 860-19745-1**
Date Collected: 01/25/22 08:35 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	02/10/22 11:04	02/16/22 12:31	1
13C8 PFOS	106		70 - 130	02/10/22 11:04	02/16/22 12:31	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.142	U	1.79	0.142	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Arsenic	**1.82**	**J**	3.57	0.551	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Barium	**232**		3.57	0.310	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Beryllium	0.165	U	1.79	0.165	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Cadmium	0.104	U	1.79	0.104	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Chromium	**2.08**	**J**	3.57	0.242	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Copper	**0.986**	**J**	3.57	0.233	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Iron	**1710**		17.9	2.09	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Manganese	**17.7**		1.79	0.227	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Lead	**1.15**	**J**	1.79	0.173	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Antimony	**0.140**	**J**	1.79	0.106	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Selenium	0.443	U	1.79	0.443	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Thallium	0.213	U	1.79	0.213	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Uranium	**0.295**	**J**	0.893	0.0534	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Zinc	**8.37**		3.57	0.395	mg/Kg		02/02/22 12:57	02/04/22 13:30	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00540**	**J**	0.0200	0.00384	mg/Kg		01/28/22 08:00	01/28/22 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	30.8	U	62.1	30.8	ug/Kg		02/08/22 15:02	02/08/22 16:52	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:27	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.2**	**HF**			SU			02/08/22 15:18	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**148**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**0.536**		0.178	0.189	1.00	0.187	pCi/g	02/07/22 10:12	02/28/22 10:23	1
Radium-228	0.0790	U	0.229	0.229		0.414	pCi/g	02/07/22 10:12	02/28/22 10:23	1
Combined Radium 226 + 228	**0.615**		0.290	0.297		0.414	pCi/g	02/07/22 10:12	02/28/22 10:23	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 34-S-3-4-220125 **Lab Sample ID: 860-19745-2**
Date Collected: 01/25/22 09:05 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.616	U	4.22	0.616	ug/Kg			01/27/22 21:29	1
Chloromethane	1.01	U	4.22	1.01	ug/Kg			01/27/22 21:29	1
Vinyl chloride	0.506	U	4.22	0.506	ug/Kg			01/27/22 21:29	1
Bromomethane	0.927	U	4.22	0.927	ug/Kg			01/27/22 21:29	1
Trichlorofluoromethane	0.422	U	4.22	0.422	ug/Kg			01/27/22 21:29	1
Acrolein	7.25	U	42.2	7.25	ug/Kg			01/27/22 21:29	1
1,1-Dichloroethene	0.422	U	4.22	0.422	ug/Kg			01/27/22 21:29	1
trans-1,2-Dichloroethene	0.422	U	4.22	0.422	ug/Kg			01/27/22 21:29	1
Methyl tert-butyl ether	0.514	U	4.22	0.514	ug/Kg			01/27/22 21:29	1
1,3-Dichlorobenzene	0.261	U	4.22	0.261	ug/Kg			01/27/22 21:29	1
Methylene Chloride	4.22	U	21.1	4.22	ug/Kg			01/27/22 21:29	1
Acrylonitrile	3.04	U	42.2	3.04	ug/Kg			01/27/22 21:29	1
cis-1,2-Dichloroethene	0.481	U	4.22	0.481	ug/Kg			01/27/22 21:29	1
Carbon tetrachloride	0.430	U	4.22	0.430	ug/Kg			01/27/22 21:29	1
Benzene	0.531	U	4.22	0.531	ug/Kg			01/27/22 21:29	1
1,2-Dichloroethane	0.438	U	4.22	0.438	ug/Kg			01/27/22 21:29	1
Trichloroethene	0.236	U	4.22	0.236	ug/Kg			01/27/22 21:29	1
1,1,1-Trichloroethane	0.422	U	4.22	0.422	ug/Kg			01/27/22 21:29	1
1,1-Dichloroethane	0.497	U	4.22	0.497	ug/Kg			01/27/22 21:29	1
1,2-Dichloropropane	0.422	U	4.22	0.422	ug/Kg			01/27/22 21:29	1
1,4-Dioxane	16.0	U	84.3	16.0	ug/Kg			01/27/22 21:29	1
Chloroform	0.734	U	4.22	0.734	ug/Kg			01/27/22 21:29	1
Bromodichloromethane	0.169	U	4.22	0.169	ug/Kg			01/27/22 21:29	1
1,1-Dichloropropene	0.438	U	4.22	0.438	ug/Kg			01/27/22 21:29	1
cis-1,3-Dichloropropene	0.379	U	4.22	0.379	ug/Kg			01/27/22 21:29	1
Toluene	0.759	U	4.22	0.759	ug/Kg			01/27/22 21:29	1
trans-1,3-Dichloropropene	0.438	U	4.22	0.438	ug/Kg			01/27/22 21:29	1
1,1,2-Trichloroethane	0.422	U	4.22	0.422	ug/Kg			01/27/22 21:29	1
Tetrachloroethene	0.624	U *	4.22	0.624	ug/Kg			01/27/22 21:29	1
1,3-Dichloropropene, Total	0.438	U	4.22	0.438	ug/Kg			01/27/22 21:29	1
1,2-Dibromoethane	0.253	U	4.22	0.253	ug/Kg			01/27/22 21:29	1
Monochlorobenzene	0.253	U	4.22	0.253	ug/Kg			01/27/22 21:29	1
Ethylbenzene	0.379	U	4.22	0.379	ug/Kg			01/27/22 21:29	1
Xylenes, Total	0.422	U	8.43	0.422	ug/Kg			01/27/22 21:29	1
Styrene	0.253	U	4.22	0.253	ug/Kg			01/27/22 21:29	1
Tribromomethane	0.430	U	4.22	0.430	ug/Kg			01/27/22 21:29	1
1,1,2,2-Tetrachloroethane	0.320	U	4.22	0.320	ug/Kg			01/27/22 21:29	1
1,4-Dichlorobenzene	0.270	U	4.22	0.270	ug/Kg			01/27/22 21:29	1
1,2-Dichlorobenzene	0.211	U	4.22	0.211	ug/Kg			01/27/22 21:29	1
1,2,4-Trichlorobenzene	0.818	U	4.22	0.818	ug/Kg			01/27/22 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 152*		*01/27/22 21:29*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/27/22 21:29*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 21:29*	*1*
4-Bromofluorobenzene (Surr)	*113*		*61 - 142*		*01/27/22 21:29*	*1*

Method: 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	0.00502	0.00251	mg/Kg		02/01/22 11:08	02/01/22 19:48	1

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Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 34-S-3-4-220125
Lab Sample ID: 860-19745-2
Date Collected: 01/25/22 09:05
Matrix: Solid
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		63 - 144	02/01/22 11:08	02/01/22 19:48	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.8	U	65.1	11.8	ug/Kg		02/04/22 15:17	02/08/22 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	81	*	30 - 164	02/04/22 15:17	02/08/22 19:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.3	U	166	17.3	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
bis (2-chloroisopropyl) ether	17.8	U	166	17.8	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
2,6-Dinitrotoluene	23.3	U	166	23.3	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Anthracene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Chrysene	16.5	U	166	16.5	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Dimethyl phthalate	15.9	U	166	15.9	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Fluorene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Hexachloroethane	17.3	U	166	17.3	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Isophorone	14.5	U	166	14.5	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		01/27/22 07:14	01/28/22 19:08	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 34-S-3-4-220125 **Lab Sample ID: 860-19745-2**
Date Collected: 01/25/22 09:05 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Pyrene	14.6	U	166	14.6	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Naphthalene	15.6	U	166	15.6	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Nitrobenzene	18.5	U	166	18.5	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		01/27/22 07:14	01/28/22 19:08	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	333	332	ug/Kg		01/27/22 07:14	01/28/22 19:08	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*	*01/27/22 07:14*	*01/28/22 19:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*121*	*X*	*30 - 115*	*01/27/22 07:14*	*01/28/22 19:08*	*1*
2-Fluorophenol	*115*		*25 - 121*	*01/27/22 07:14*	*01/28/22 19:08*	*1*
2,4,6-Tribromophenol	*137*	*X*	*19 - 122*	*01/27/22 07:14*	*01/28/22 19:08*	*1*
Nitrobenzene-d5	*109*		*23 - 129*	*01/27/22 07:14*	*01/28/22 19:08*	*1*
Phenol-d5 (Surr)	*112*		*24 - 113*	*01/27/22 07:14*	*01/28/22 19:08*	*1*
p-Terphenyl-d14 (Surr)	*142*	*X*	*18 - 137*	*01/27/22 07:14*	*01/28/22 19:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.8	21.0	mg/Kg		02/01/22 12:48	02/02/22 19:40	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		02/01/22 12:48	02/02/22 19:40	1
OII Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		02/01/22 12:48	02/02/22 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*65 - 130*	*02/01/22 12:48*	*02/02/22 19:40*	*1*
o-Terphenyl (Surr)	*101*		*65 - 130*	*02/01/22 12:48*	*02/02/22 19:40*	*1*

Method: 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		01/26/22 08:34	01/28/22 16:17	1
Aldrin	0.363	U	0.835	0.363	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Hexachlorocyclohexane, alpha-	0.681	U	0.835	0.681	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Hexachlorocyclohexane, beta-	0.474	U	0.835	0.474	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Hexachlorocyclohexane, delta-	0.835	U	0.835	0.835	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Dieldrin	0.170	U	0.835	0.170	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Endosulfan I	0.202	U	0.835	0.202	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Endosulfan II	0.373	U	0.835	0.373	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Endosulfan sulfate	0.276	U	0.835	0.276	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Endrin	0.291	U	0.835	0.291	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Endrin aldehyde	0.248	U	0.835	0.248	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Hexachlorocyclohexane, gamma-	0.439	U	0.835	0.439	ug/Kg		01/26/22 08:34	01/28/22 16:17	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 34-S-3-4-220125 **Lab Sample ID: 860-19745-2**
Date Collected: 01/25/22 09:05 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.563	U	0.835	0.563	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Heptachlor epoxide	0.245	U	0.835	0.245	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/26/22 08:34	01/28/22 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*35 - 135*	*01/26/22 08:34*	*01/28/22 16:17*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*25 - 143*	*01/26/22 08:34*	*01/28/22 16:17*	*1*

Method: 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		01/26/22 08:34	01/27/22 20:49	1
Aroclor 1221	0.00396	U	0.0167	0.00396	mg/Kg		01/26/22 08:34	01/27/22 20:49	1
Aroclor 1232	0.00396	U	0.0167	0.00396	mg/Kg		01/26/22 08:34	01/27/22 20:49	1
Aroclor 1242	0.00396	U	0.0167	0.00396	mg/Kg		01/26/22 08:34	01/27/22 20:49	1
Aroclor 1248	0.00396	U	0.0167	0.00396	mg/Kg		01/26/22 08:34	01/27/22 20:49	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/27/22 20:49	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/27/22 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*35 - 140*	*01/26/22 08:34*	*01/27/22 20:49*	*1*
DCB Decachlorobiphenyl (Surr)	*126*		*37 - 142*	*01/26/22 08:34*	*01/27/22 20:49*	*1*

Method: 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	0.0956	0.0217	mg/Kg		02/05/22 11:25	02/10/22 11:28	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0411	U	0.191	0.0411	mg/Kg		02/05/22 11:25	02/10/22 11:28	1
2,4,6-Trinitrotoluene	0.0293	U	0.0956	0.0293	mg/Kg		02/05/22 11:25	02/10/22 11:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*02/05/22 11:25*	*02/10/22 11:28*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.0**		10.1	3.59	mg/Kg		01/26/22 15:18	01/27/22 12:25	1
Nitrate as N	**21.2**		1.01	0.110	mg/Kg		01/26/22 15:18	01/27/22 12:25	1
Fluoride	**7.90**		5.07	1.01	mg/Kg		01/26/22 15:18	01/27/22 12:25	1
Nitrite as N	**0.117**	**J b**	1.01	0.0507	mg/Kg		01/26/22 15:18	01/27/22 12:25	1
Nitrate Nitrite as N	**21.4**	**b**	1.01	0.00507	mg/Kg		01/26/22 15:18	01/27/22 12:25	1
Sulfate	**159**		10.1	4.38	mg/Kg		01/26/22 15:18	01/27/22 12:25	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.104**	**J**	0.486	0.0802	ug/Kg		02/03/22 17:49	02/08/22 19:19	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.227	U H	0.791	0.227	ug/Kg		02/10/22 11:04	02/16/22 12:40	1
Perfluorohexanesulfonic acid (PFHxS)	0.277	U H	0.791	0.277	ug/Kg		02/10/22 11:04	02/16/22 12:40	1
Perfluorooctanesulfonic acid (PFOS)	0.138	U H	0.791	0.138	ug/Kg		02/10/22 11:04	02/16/22 12:40	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 34-S-3-4-220125 Lab Sample ID: 860-19745-2

Date Collected: 01/25/22 09:05 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	02/10/22 11:04	02/16/22 12:40	1
13C8 PFOS	105		70 - 130	02/10/22 11:04	02/16/22 12:40	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.153	U	1.92	0.153	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Arsenic	**3.43**	**J**	3.85	0.593	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Barium	**216**		3.85	0.334	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Beryllium	0.178	U	1.92	0.178	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Cadmium	0.112	U	1.92	0.112	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Chromium	**2.80**	**J**	3.85	0.261	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Copper	**1.58**	**J**	3.85	0.251	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Iron	**2420**		19.2	2.25	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Manganese	**20.7**		1.92	0.245	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Lead	**1.41**	**J**	1.92	0.186	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Antimony	**0.142**	**J**	1.92	0.114	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Selenium	0.477	U	1.92	0.477	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Thallium	0.230	U	1.92	0.230	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Uranium	**0.446**	**J**	0.962	0.0575	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Zinc	**10.4**		3.85	0.426	mg/Kg		02/02/22 12:57	02/04/22 13:33	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00750**	**J**	0.0192	0.00370	mg/Kg		01/28/22 08:00	01/28/22 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**32.0**	**J**	60.8	30.1	ug/Kg		02/08/22 15:02	02/08/22 16:54	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:30	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.1**	**HF**			SU			02/08/22 15:18	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**213**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**1.87**		0.261	0.343	1.00	0.113	pCi/g	02/07/22 10:12	02/28/22 14:43	1
Radium-228	-0.207	U	0.290	0.291		0.582	pCi/g	02/07/22 10:12	02/28/22 14:43	1
Combined Radium 226 + 228	**1.67**		0.390	0.450		0.582	pCi/g	02/07/22 10:12	02/28/22 14:43	1

Surrogate Summary

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

Job ID: 860-19745-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(65-152)	(65-139)	(50-136)	(61-142)
860-19745-1	Cell18-Square 180-S-3-4-220125	94	95	95	112
860-19745-2	Cell18-Square 34-S-3-4-220125	92	94	93	113
LCS 560-192640/3	Lab Control Sample	94	94	96	116
LCSD 560-192640/4	Lab Control Sample Dup	94	95	96	117
MB 560-192640/7	Method Blank	92	95	93	111

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCA
Lab Sample ID	Client Sample ID	(63-144)
860-19745-1	Cell18-Square 180-S-3-4-220125	94
860-19745-2	Cell18-Square 34-S-3-4-220125	88
LCS 860-39864/11	Lab Control Sample	90
LCSD 860-39864/12	Lab Control Sample Dup	92
MB 860-39864/16	Method Blank	91

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19745-1	Cell18-Square 180-S-3-4-220125	81 *
860-19745-2	Cell18-Square 34-S-3-4-220125	81 *
LCS 400-565562/2-A	Lab Control Sample	95 *
MB 400-565562/1-A	Method Blank	80

Surrogate Legend

TPP = Triphenylphosphate

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(30-115)	(25-121)	(19-122)	(23-129)	(24-113)	(18-137)
860-19745-1	Cell18-Square 180-S-3-4-220125	111	100	124 X	99	100	129
860-19745-2	Cell18-Square 34-S-3-4-220125	121 X	115	137 X	109	112	142 X

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(65-130)	(65-130)										
860-19745-1 - RA	Cell18-Square 180-S-3-4-220125	106	97										
860-19745-1 MS - RA	Cell18-Square 180-S-3-4-220125	106	99										
860-19745-1 MSD - RA	Cell18-Square 180-S-3-4-220125	107	99										
860-19745-2 - RA	Cell18-Square 34-S-3-4-220125	110	101										
LCS 860-39790/2-A - RA	Lab Control Sample	107	100										
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	110	103										
MB 860-39790/1-A - RA	Method Blank	105	97										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		TCX1	DCB1										
Lab Sample ID	Client Sample ID	(35-135)	(25-143)										
860-19745-1	Cell18-Square 180-S-3-4-220125	58	63										
860-19745-2	Cell18-Square 34-S-3-4-220125	76	68										
LCS 860-38890/2-A	Lab Control Sample	88	107										
LCSD 860-38890/3-A	Lab Control Sample Dup	86	107										
MB 860-38890/1-A	Method Blank	95	115										

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)											
		TCX1	DCB1										
Lab Sample ID	Client Sample ID	(35-140)	(37-142)										
860-19745-1	Cell18-Square 180-S-3-4-220125	48	125										
860-19745-2	Cell18-Square 34-S-3-4-220125	61	126										
LCS 860-38890/4-A	Lab Control Sample	72	86										
LCSD 860-38890/5-A	Lab Control Sample Dup	67	87										
MB 860-38890/1-A	Method Blank	80	91										

Surrogate Legend

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

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)									
860-19745-1	Cell18-Square 180-S-3-4-220125	107									
860-19745-2	Cell18-Square 34-S-3-4-220125	106									
LCS 280-565272/2-A	Lab Control Sample	99									
MB 280-565272/1-A	Method Blank	105									

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)								
860-19745-1	Cell18-Square 180-S-3-4-220125	103	106								
860-19745-2	Cell18-Square 34-S-3-4-220125	104	105								
DLCK 280-556129/13	Lab Control Sample	98	105								
LCS 280-565681/2-A	Lab Control Sample	104	108								
MB 280-565681/1-A	Method Blank	104	107								

Surrogate Legend

C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS

QC Sample Results

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

Job ID: 860-19745-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192640/7
Matrix: Solid
Analysis Batch: 192640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/27/22 17:15	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/27/22 17:15	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/27/22 17:15	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/27/22 17:15	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/27/22 17:15	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/27/22 17:15	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/27/22 17:15	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/27/22 17:15	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/27/22 17:15	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/27/22 17:15	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/27/22 17:15	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/27/22 17:15	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/27/22 17:15	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/27/22 17:15	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/27/22 17:15	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/27/22 17:15	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/27/22 17:15	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/27/22 17:15	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/27/22 17:15	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/27/22 17:15	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/27/22 17:15	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/27/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 152*		*01/27/22 17:15*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 17:15*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 17:15*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*01/27/22 17:15*	*1*

QC Sample Results

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

Job ID: 860-19745-1

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

Lab Sample ID: LCS 560-192640/3
Matrix: Solid
Analysis Batch: 192640

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	35.80		ug/Kg		89	13 - 130
Chloromethane	40.0	29.10		ug/Kg		73	61 - 137
Vinyl chloride	40.0	34.22		ug/Kg		86	65 - 139
Bromomethane	40.0	32.15		ug/Kg		80	57 - 155
Trichlorofluoromethane	40.0	32.83		ug/Kg		82	68 - 146
Acrolein	395	383.2		ug/Kg		97	20 - 150
1,1-Dichloroethene	40.0	35.68		ug/Kg		89	70 - 130
trans-1,2-Dichloroethene	40.0	35.03		ug/Kg		88	70 - 132
Methyl tert-butyl ether	40.0	37.20		ug/Kg		93	70 - 130
1,3-Dichlorobenzene	40.0	35.27		ug/Kg		88	70 - 130
Methylene Chloride	40.0	33.56		ug/Kg		84	61 - 150
Acrylonitrile	400	374.6		ug/Kg		94	66 - 137
cis-1,2-Dichloroethene	40.0	36.33		ug/Kg		91	70 - 130
Carbon tetrachloride	40.0	31.85		ug/Kg		80	70 - 136
Benzene	40.0	35.70		ug/Kg		89	70 - 131
1,2-Dichloroethane	40.0	31.23		ug/Kg		78	70 - 130
Trichloroethene	40.0	34.26		ug/Kg		86	70 - 130
1,1,1-Trichloroethane	40.0	31.86		ug/Kg		80	70 - 132
1,1-Dichloroethane	40.0	34.37		ug/Kg		86	70 - 130
1,2-Dichloropropane	40.0	36.83		ug/Kg		92	70 - 130
1,4-Dioxane	800	833.9		ug/Kg		104	10 - 150
Chloroform	40.0	32.99		ug/Kg		82	70 - 130
Bromodichloromethane	40.0	34.83		ug/Kg		87	70 - 130
1,1-Dichloropropene	40.0	37.02		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	32.77		ug/Kg		82	70 - 130
Toluene	40.0	32.19		ug/Kg		80	70 - 130
trans-1,3-Dichloropropene	40.0	35.13		ug/Kg		88	70 - 131
1,1,2-Trichloroethane	40.0	33.40		ug/Kg		84	70 - 130
Tetrachloroethene	40.0	27.27	*	ug/Kg		68	70 - 130
1,3-Dichloropropene, Total	80.0	67.90		ug/Kg		85	
1,2-Dibromoethane	40.0	32.91		ug/Kg		82	70 - 130
Monochlorobenzene	40.0	31.49		ug/Kg		79	70 - 130
Ethylbenzene	40.0	35.33		ug/Kg		88	70 - 130
Xylenes, Total	80.0	73.91		ug/Kg		92	70 - 130
Styrene	40.0	36.75		ug/Kg		92	70 - 130
Tribromomethane	40.0	29.36		ug/Kg		73	59 - 137
1,1,2,2-Tetrachloroethane	40.0	38.53		ug/Kg		96	70 - 130
1,4-Dichlorobenzene	40.0	33.92		ug/Kg		85	70 - 130
1,2-Dichlorobenzene	40.0	34.72		ug/Kg		87	70 - 130
1,2,4-Trichlorobenzene	40.0	36.85		ug/Kg		92	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*94*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 560-192640/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192640

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			40.0	40.95		ug/Kg		102	13 - 130	13	30.0
Chloromethane			40.0	32.52		ug/Kg		81	61 - 137	11	30.0
Vinyl chloride			40.0	37.63		ug/Kg		94	65 - 139	9	30.0
Bromomethane			40.0	36.48		ug/Kg		91	57 - 155	13	30.0
Trichlorofluoromethane			40.0	37.52		ug/Kg		94	68 - 146	13	30.0
Acrolein			395	450.0		ug/Kg		114	20 - 150	16	30.0
1,1-Dichloroethene			40.0	40.79		ug/Kg		102	70 - 130	13	30.0
trans-1,2-Dichloroethene			40.0	40.86		ug/Kg		102	70 - 132	15	30.0
Methyl tert-butyl ether			40.0	44.27		ug/Kg		111	70 - 130	17	30.0
1,3-Dichlorobenzene			40.0	39.74		ug/Kg		99	70 - 130	12	30.0
Methylene Chloride			40.0	38.56		ug/Kg		96	61 - 150	14	30.0
Acrylonitrile			400	428.6		ug/Kg		107	66 - 137	13	30.0
cis-1,2-Dichloroethene			40.0	42.79		ug/Kg		107	70 - 130	16	30.0
Carbon tetrachloride			40.0	38.15		ug/Kg		95	70 - 136	18	30.0
Benzene			40.0	41.87		ug/Kg		105	70 - 131	16	30.0
1,2-Dichloroethane			40.0	36.23		ug/Kg		91	70 - 130	15	30.0
Trichloroethene			40.0	39.85		ug/Kg		100	70 - 130	15	30.0
1,1,1-Trichloroethane			40.0	38.48		ug/Kg		96	70 - 132	19	30.0
1,1-Dichloroethane			40.0	40.81		ug/Kg		102	70 - 130	17	30.0
1,2-Dichloropropane			40.0	41.90		ug/Kg		105	70 - 130	13	30.0
1,4-Dioxane			800	907.5		ug/Kg		113	10 - 150	8	30.0
Chloroform			40.0	38.61		ug/Kg		97	70 - 130	16	30.0
Bromodichloromethane			40.0	41.06		ug/Kg		103	70 - 130	16	30.0
1,1-Dichloropropene			40.0	43.32		ug/Kg		108	70 - 130	16	30.0
cis-1,3-Dichloropropene			40.0	38.69		ug/Kg		97	70 - 130	17	30.0
Toluene			40.0	37.88		ug/Kg		95	70 - 130	16	30.0
trans-1,3-Dichloropropene			40.0	40.99		ug/Kg		102	70 - 131	15	30.0
1,1,2-Trichloroethane			40.0	38.17		ug/Kg		95	70 - 130	13	30.0
Tetrachloroethene			40.0	33.02		ug/Kg		83	70 - 130	19	30.0
1,3-Dichloropropene, Total			80.0	79.68		ug/Kg		100		16	30
1,2-Dibromoethane			40.0	37.63		ug/Kg		94	70 - 130	13	30.0
Monochlorobenzene			40.0	36.20		ug/Kg		90	70 - 130	14	30.0
Ethylbenzene			40.0	40.69		ug/Kg		102	70 - 130	14	30.0
Xylenes, Total			80.0	85.81		ug/Kg		107	70 - 130	15	30.0
Styrene			40.0	41.41		ug/Kg		104	70 - 130	12	30.0
Tribromomethane			40.0	33.15		ug/Kg		83	59 - 137	12	30.0
1,1,2,2-Tetrachloroethane			40.0	44.69		ug/Kg		112	70 - 130	15	30.0
1,4-Dichlorobenzene			40.0	38.17		ug/Kg		95	70 - 130	12	30.0
1,2-Dichlorobenzene			40.0	40.46		ug/Kg		101	70 - 130	15	30.0
1,2,4-Trichlorobenzene			40.0	42.88		ug/Kg		107	68 - 140	15	30.0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*117*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39864/16
Matrix: Solid
Analysis Batch: 39864

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			02/01/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*		*02/01/22 17:15*	*1*

Lab Sample ID: LCS 860-39864/11
Matrix: Solid
Analysis Batch: 39864

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	0.04692		mg/Kg		94	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*

Lab Sample ID: LCSD 860-39864/12
Matrix: Solid
Analysis Batch: 39864

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	0.04791		mg/Kg		96	65 - 135	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-565562/1-A
Matrix: Solid
Analysis Batch: 565810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/04/22 15:17	02/08/22 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*80*		*30 - 164*	*02/04/22 15:17*	*02/08/22 14:41*	*1*

Lab Sample ID: LCS 400-565562/2-A
Matrix: Solid
Analysis Batch: 565810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565562

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	272.6		ug/Kg		82	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*95*	*	*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-39790/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Diesel Range Organics (Over C10-C28) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Oil Range Organics (Over C28-C36) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane - RA	*105*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*
o-Terphenyl (Surr) - RA	*97*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*

Lab Sample ID: LCS 860-39790/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10 - RA	994	1024		mg/Kg		103	70 - 135
Diesel Range Organics (Over C10-C28) - RA	996	974.9		mg/Kg		98	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane - RA	*107*		*65 - 130*
o-Terphenyl (Surr) - RA	*100*		*65 - 130*

Lab Sample ID: LCSD 860-39790/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10 - RA	994	1028		mg/Kg		103	70 - 135	0	35
Diesel Range Organics (Over C10-C28) - RA	996	1002		mg/Kg		101	70 - 135	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane - RA	*110*		*65 - 130*
o-Terphenyl (Surr) - RA	*103*		*65 - 130*

Lab Sample ID: 860-19745-1 MS **Client Sample ID: Cell18-Square 180-S-3-4-220125**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10 - RA	21.1	U	991	1001		mg/Kg		101	70 - 135
Diesel Range Organics (Over C10-C28) - RA	21.1	U	993	952.5		mg/Kg		96	70 - 135

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: 860-19745-1 MS **Client Sample ID: Cell18-Square 180-S-3-4-220125**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane - RA	106		65 - 130
o-Terphenyl (Surr) - RA	99		65 - 130

Lab Sample ID: 860-19745-1 MSD **Client Sample ID: Cell18-Square 180-S-3-4-220125**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

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 - RA	21.1	U	994	1000		mg/Kg		101	70 - 135	0	35
Diesel Range Organics (Over C10-C28) - RA	21.1	U	996	974.2		mg/Kg		98	70 - 135	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane - RA	107		65 - 130
o-Terphenyl (Surr) - RA	99		65 - 130

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/26/22 08:34	01/26/22 14:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		35 - 135	01/26/22 08:34	01/26/22 14:18	1
DCB Decachlorobiphenyl (Surr)	115		25 - 143	01/26/22 08:34	01/26/22 14:18	1

QC Sample Results

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

Job ID: 860-19745-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 860-38890/2-A
Matrix: Solid
Analysis Batch: 38895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38890

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DDT			16.7	19.14		ug/Kg		115	13 - 192		
Aldrin			16.7	18.43		ug/Kg		111	30 - 152		
Hexachlorocyclohexane, alpha-			16.7	17.42		ug/Kg		105	29 - 160		
Hexachlorocyclohexane, beta-			16.7	19.15		ug/Kg		115	30 - 155		
Hexachlorocyclohexane, delta-			16.7	17.69		ug/Kg		106	20 - 161		
Dieldrin			16.7	19.24		ug/Kg		115	33 - 153		
Endosulfan I			16.7	18.57		ug/Kg		111	30 - 151		
Endosulfan II			16.7	17.20		ug/Kg		103	27 - 153		
Endosulfan sulfate			16.7	18.75		ug/Kg		112	15 - 170		
Endrin			16.7	20.31		ug/Kg		122	25 - 162		
Endrin aldehyde			16.7	18.29		ug/Kg		110	49 - 117		
Hexachlorocyclohexane, gamma-			16.7	18.31		ug/Kg		110	30 - 158		
Heptachlor			16.7	18.86		ug/Kg		113	29 - 163		
Heptachlor epoxide			16.7	18.26		ug/Kg		110	30 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

Lab Sample ID: LCSD 860-38890/3-A
Matrix: Solid
Analysis Batch: 38895

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38890

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT			16.7	18.62		ug/Kg		112	13 - 192	3	25
Aldrin			16.7	18.12		ug/Kg		109	30 - 152	2	25
Hexachlorocyclohexane, alpha-			16.7	17.11		ug/Kg		103	29 - 160	2	25
Hexachlorocyclohexane, beta-			16.7	18.75		ug/Kg		113	30 - 155	2	25
Hexachlorocyclohexane, delta-			16.7	17.26		ug/Kg		104	20 - 161	2	25
Dieldrin			16.7	18.81		ug/Kg		113	33 - 153	2	25
Endosulfan I			16.7	18.15		ug/Kg		109	30 - 151	2	25
Endosulfan II			16.7	16.84		ug/Kg		101	27 - 153	2	25
Endosulfan sulfate			16.7	18.21		ug/Kg		109	15 - 170	3	25
Endrin			16.7	19.79		ug/Kg		119	25 - 162	3	25
Endrin aldehyde			16.7	17.90		ug/Kg		107	49 - 117	2	25
Hexachlorocyclohexane, gamma-			16.7	17.85		ug/Kg		107	30 - 158	3	25
Heptachlor			16.7	18.53		ug/Kg		111	29 - 163	2	25
Heptachlor epoxide			16.7	17.76		ug/Kg		107	30 - 150	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*35 - 140*	*01/26/22 08:34*	*01/26/22 14:24*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 142*	*01/26/22 08:34*	*01/26/22 14:24*	*1*

Lab Sample ID: LCS 860-38890/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			0.167	0.1416		mg/Kg		85	27 - 121		
Aroclor 1260			0.167	0.1484		mg/Kg		89	27 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*86*		*37 - 142*

Lab Sample ID: LCSD 860-38890/5-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1363		mg/Kg		82	27 - 121	4	20
Aroclor 1260			0.167	0.1452		mg/Kg		87	27 - 139	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*67*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*87*		*37 - 142*

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565272/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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		02/05/22 11:25	02/10/22 06:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 06:07	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/05/22 11:25	02/10/22 06:07	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: MB 280-565272/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	02/05/22 11:25	02/10/22 06:07	1

Lab Sample ID: LCS 280-565272/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.9312		mg/Kg		93	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	1.00	0.9739		mg/Kg		97	80 - 124
2,4,6-Trinitrotoluene	1.00	0.9953		mg/Kg		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	99		83 - 122

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-39027/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38814 **Prep Batch: 39027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/26/22 18:46	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/26/22 18:46	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/26/22 18:46	1

Lab Sample ID: MB 860-39027/28-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38814 **Prep Batch: 39027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/26/22 23:31	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/26/22 23:31	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/26/22 23:31	1

Lab Sample ID: MB 860-39027/57-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38814 **Prep Batch: 39027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrite as N	0.08762	J	1.00	0.0500	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrate Nitrite as N	0.1812	J	1.00	0.00500	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/27/22 06:39	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-39027/58-A
Matrix: Solid
Analysis Batch: 38814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	103.2		mg/Kg		103	80 - 120
Nitrate as N	100	96.19		mg/Kg		96	80 - 120
Fluoride	100	100.1		mg/Kg		100	80 - 120
Nitrite as N	50.0	48.60		mg/Kg		97	80 - 120
Sulfate	100	95.71		mg/Kg		96	80 - 120

Lab Sample ID: LCSD 860-39027/3-A
Matrix: Solid
Analysis Batch: 38814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39027

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	103.9		mg/Kg		104	80 - 120	0	20
Fluoride	100	101.5		mg/Kg		101	80 - 120	0	20
Sulfate	100	97.19		mg/Kg		97	80 - 120	0	20

Lab Sample ID: LCSD 860-39027/59-A
Matrix: Solid
Analysis Batch: 38814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39027

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	99.30		mg/Kg		99	80 - 120	4	20
Nitrate as N	100	93.62		mg/Kg		94	80 - 120	3	20
Fluoride	100	97.49		mg/Kg		97	80 - 120	3	20
Nitrite as N	50.0	47.43		mg/Kg		95	80 - 120	2	20
Sulfate	100	93.07		mg/Kg		93	80 - 120	3	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12
Matrix: Solid
Analysis Batch: 564802

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

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.04711	J	ug/L		94	70 - 130

Lab Sample ID: MB 280-565161/1-A
Matrix: Solid
Analysis Batch: 565540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:01	1

Lab Sample ID: LCS 280-565161/2-A
Matrix: Solid
Analysis Batch: 565540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5047		ug/Kg		101	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 556129

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorooctanoic acid (PFOA)			0.500	0.490	U	ug/L		94	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)			0.455	0.4417	J	ug/L		97	70 - 130		
Perfluorooctanesulfonic acid (PFOS)			0.464	0.665	U	ug/L		95	70 - 130		

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

Lab Sample ID: MB 280-565681/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566232 **Prep Batch: 565681**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/10/22 11:04	02/16/22 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/10/22 11:04*	*02/16/22 11:21*	*1*
13C8 PFOS	*107*		*70 - 130*	*02/10/22 11:04*	*02/16/22 11:21*	*1*

Lab Sample ID: LCS 280-565681/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566232 **Prep Batch: 565681**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorooctanoic acid (PFOA)			20.0	20.31		ug/Kg		102	70 - 131		
Perfluorohexanesulfonic acid (PFHxS)			18.2	18.45		ug/Kg		101	70 - 135		
Perfluorooctanesulfonic acid (PFOS)			18.6	17.74		ug/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*108*		*70 - 130*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-39983/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40322 **Prep Batch: 39983**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/02/22 12:56	02/04/22 12:37	1

QC Sample Results

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

Job ID: 860-19745-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 860-39983/1-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/02/22 12:56	02/04/22 12:37	1

Lab Sample ID: LCS 860-39983/2-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	5.00	4.950		mg/Kg		99	80 - 120
Arsenic	10.0	10.41		mg/Kg		104	80 - 120
Barium	10.0	9.918		mg/Kg		99	80 - 120
Beryllium	10.0	10.08		mg/Kg		101	80 - 120
Cadmium	10.0	10.42		mg/Kg		104	80 - 120
Chromium	10.0	10.57		mg/Kg		106	80 - 120
Copper	10.0	10.37		mg/Kg		104	80 - 120
Iron	50.0	52.35		mg/Kg		105	80 - 120
Manganese	10.0	10.93		mg/Kg		109	80 - 120
Lead	10.0	9.971		mg/Kg		100	80 - 120
Antimony	10.0	9.820		mg/Kg		98	80 - 120
Selenium	10.0	10.46		mg/Kg		105	80 - 120
Thallium	10.0	9.997		mg/Kg		100	80 - 120
Uranium	2.50	2.407		mg/Kg		96	80 - 120
Zinc	10.0	11.99		mg/Kg		120	80 - 120

Lab Sample ID: LCSD 860-39983/3-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39983

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.90	4.888		mg/Kg		100	80 - 120	1	20
Arsenic	9.80	10.36		mg/Kg		106	80 - 120	0	20
Barium	9.80	9.905		mg/Kg		101	80 - 120	0	20
Beryllium	9.80	10.11		mg/Kg		103	80 - 120	0	20
Cadmium	9.80	10.29		mg/Kg		105	80 - 120	1	20
Chromium	9.80	10.30		mg/Kg		105	80 - 120	3	20
Copper	9.80	10.18		mg/Kg		104	80 - 120	2	20
Iron	49.0	51.04		mg/Kg		104	80 - 120	3	20
Manganese	9.80	10.60		mg/Kg		108	80 - 120	3	20
Lead	9.80	9.940		mg/Kg		101	80 - 120	0	20
Antimony	9.80	9.828		mg/Kg		100	80 - 120	0	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-39983/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40322 **Prep Batch: 39983**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	9.80	10.36		mg/Kg		106	80 - 120	1	20
Thallium	9.80	9.988		mg/Kg		102	80 - 120	0	20
Uranium	2.45	2.417		mg/Kg		99	80 - 120	0	20
Zinc	9.80	11.39		mg/Kg		116	80 - 120	5	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39207/10-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39396 **Prep Batch: 39207**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00356	U	0.0185	0.00356	mg/Kg		01/28/22 08:00	01/28/22 12:43	1

Lab Sample ID: LCS 860-39207/11-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39396 **Prep Batch: 39207**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.192	0.2007		mg/Kg		104	80 - 120

Lab Sample ID: LCSD 860-39207/12-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39396 **Prep Batch: 39207**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.192	0.1950		mg/Kg		101	80 - 120	3	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40711/16-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40738 **Prep Batch: 40711**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/08/22 15:02	02/08/22 16:20	1

Lab Sample ID: MB 860-40711/3-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40738 **Prep Batch: 40711**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/08/22 15:02	02/08/22 15:59	1

Lab Sample ID: LCS 860-40711/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40738 **Prep Batch: 40711**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	101.9		ug/Kg		102	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LLCS 860-40711/18-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	50.0	52.87		ug/Kg		106	90 - 110

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-42223/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 12:48	1

Lab Sample ID: LCS 860-42223/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	1.00	0.9730		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 860-42223/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	1.00	0.9910		mg/Kg		99	90 - 110	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193206/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/15/22 15:10	1

Lab Sample ID: LCS 560-193206/2 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	2250	2124		mg/L		94	90 - 110

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	5035	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	5035	

Analysis Batch: 39864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8260D SIM	39768
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8260D SIM	39768
MB 860-39864/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-39864/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-39864/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8260B	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8260B	
MB 560-192640/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192640/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192640/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	3550C	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	3550C	

Analysis Batch: 39315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8270D	39007
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8270D	39007

Prep Batch: 565562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	3546	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	3546	
MB 400-565562/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 565810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8270D	565562
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8270D	565562
MB 400-565562/1-A	Method Blank	Total/NA	Solid	8270D	565562
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	8270D	565562

GC Semi VOA

Prep Batch: 38890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	3550C	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	3550C	
MB 860-38890/1-A	Method Blank	Total/NA	Solid	3550C	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Prep Batch: 38890 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 38895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8081B	38890
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	8081B	38890
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	38890

Analysis Batch: 38913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8082A	38890
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	8082A	38890
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	38890

Analysis Batch: 39187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8082A	38890
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8082A	38890

Analysis Batch: 39319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8081B	38890
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8081B	38890

Prep Batch: 39790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1 - RA	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8015NM Prep	
860-19745-2 - RA	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8015NM Prep	
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
860-19745-1 MS - RA	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8015NM Prep	
860-19745-1 MSD - RA	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1 - RA	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8015B NM	39790
860-19745-2 - RA	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8015B NM	39790
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015B NM	39790
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015B NM	39790
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39790
860-19745-1 MS - RA	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8015B NM	39790
860-19745-1 MSD - RA	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8015B NM	39790

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Analysis Batch: 38814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	9056A	39027
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	9056A	39027
MB 860-39027/1-A	Method Blank	Total/NA	Solid	9056A	39027
MB 860-39027/28-A	Method Blank	Total/NA	Solid	9056A	39027
MB 860-39027/57-A	Method Blank	Total/NA	Solid	9056A	39027
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	9056A	39027
LCSD 860-39027/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027

Analysis Batch: 38815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	9056A	39027
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	9056A	39027
MB 860-39027/57-A	Method Blank	Total/NA	Solid	9056A	39027
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	9056A	39027
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027

Prep Batch: 39027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	300_Prep	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	300_Prep	
MB 860-39027/1-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-39027/28-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-39027/57-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-39027/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Drying Batch: 564725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	Prep/Air Dry	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8330B	564725
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8330B	564725
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 565637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8330B	565272
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8330B	565272
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	565272
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	565272

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	6860	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	6860	
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	6860	565161
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	6860	565161
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	565161
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	565161

Prep Batch: 565681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	PFC leach	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	PFC leach	
MB 280-565681/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 566232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	DV-LC-0012	565681
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	DV-LC-0012	565681
MB 280-565681/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565681
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565681

Metals

Prep Batch: 39207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	7471A	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	7471A	
MB 860-39207/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39207/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39207/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

Analysis Batch: 39396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	7471A	39207
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	7471A	39207
MB 860-39207/10-A	Method Blank	Total/NA	Solid	7471A	39207
LCS 860-39207/11-A	Lab Control Sample	Total/NA	Solid	7471A	39207
LCSD 860-39207/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39207

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Prep Batch: 39983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	3051A	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	3051A	
MB 860-39983/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-39983/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-39983/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 40322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	6020A	39983
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	6020A	39983
MB 860-39983/1-A	Method Blank	Total/NA	Solid	6020A	39983
LCS 860-39983/2-A	Lab Control Sample	Total/NA	Solid	6020A	39983
LCSD 860-39983/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	39983

General Chemistry

Analysis Batch: 39359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	Moisture - 2540	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	Moisture - 2540	
MB 860-39359/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Leach Batch: 40687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Soluble	Solid	DI Leach	
860-19745-2	Cell18-Square 34-S-3-4-220125	Soluble	Solid	DI Leach	

Prep Batch: 40711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	9012A	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	9012A	
MB 860-40711/16-A	Method Blank	Total/NA	Solid	9012A	
MB 860-40711/3-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40711/4-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40711/18-A	Lab Control Sample	Total/NA	Solid	9012A	

Analysis Batch: 40717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Soluble	Solid	9045D	40687
860-19745-2	Cell18-Square 34-S-3-4-220125	Soluble	Solid	9045D	40687

Analysis Batch: 40738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	9012A	40711
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	9012A	40711
MB 860-40711/16-A	Method Blank	Total/NA	Solid	9012A	40711
MB 860-40711/3-A	Method Blank	Total/NA	Solid	9012A	40711
LCS 860-40711/4-A	Lab Control Sample	Total/NA	Solid	9012A	40711
LLCS 860-40711/18-A	Lab Control Sample	Total/NA	Solid	9012A	40711

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Prep Batch: 42223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	Distill/Phenol	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	Distill/Phenol	
MB 860-42223/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 42401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	9066	42223
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	9066	42223
MB 860-42223/1-A	Method Blank	Total/NA	Solid	9066	42223
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	9066	42223
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	42223

Leach Batch: 193204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	7 Day Leach	Solid	335.521	
860-19745-2	Cell18-Square 34-S-3-4-220125	7 Day Leach	Solid	335.521	

Analysis Batch: 193206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	7 Day Leach	Solid	SM 2540C	193204
860-19745-2	Cell18-Square 34-S-3-4-220125	7 Day Leach	Solid	SM 2540C	193204
MB 560-193206/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193206/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	Dry and Grind	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	Dry and Grind	

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	Fill_Geo-21	549041
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	Fill_Geo-21	549041

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 180-S-3-4-220125 **Lab Sample ID: 860-19745-1**
Date Collected: 01/25/22 08:35 **Matrix: Solid**
Date Received: 01/26/22 11:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.07 g	5 mL	192640	01/27/22 21:04	RJD	XEN CC
Total/NA	Prep	5035			4.99 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 19:26	EM	XEN STF
Total/NA	Prep	3550C			30.02 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39315	01/28/22 18:48	LPL	XEN STF
Total/NA	Prep	3546			15.18 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 18:58	PP1	TAL PEN
Total/NA	Prep	8015NM Prep	RA		10.01 g	10 mL	39790	02/01/22 12:48	SAR	XEN STF
Total/NA	Analysis	8015B NM	RA	1			39915	02/02/22 18:41	T1S	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			39319	01/28/22 16:03	WP	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			39187	01/27/22 20:40	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.65 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 11:05	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.08 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38814	01/27/22 12:13	ANP	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38815	01/27/22 12:13	ANP	XEN STF
Total/NA	Prep	6860			10.58 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:13	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.51 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 12:31	AGCM	TAL DEN
Total/NA	Prep	3051A			.56 g	50 mL	39983	02/02/22 12:57	PB	XEN STF
Total/NA	Analysis	6020A		10			40322	02/04/22 13:30	DCL	XEN STF
Total/NA	Prep	7471A			.50 g	50 mL	39207	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 12:58	SHZ	XEN STF
Total/NA	Prep	9012A			0.4831 g	6 mL	40711	02/08/22 15:02	CM1	XEN STF
Total/NA	Analysis	9012A		1			40738	02/08/22 16:52	CM1	XEN STF
Soluble	Leach	DI Leach			20.01 g	20 mL	40687	02/08/22 12:55	TL	XEN STF
Soluble	Analysis	9045D		1	20.01 g	20 mL	40717	02/08/22 15:18	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:27	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			225 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			306.2000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552704	02/28/22 10:23	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 34-S-3-4-220125 Lab Sample ID: 860-19745-2

Date Collected: 01/25/22 09:05 **Matrix: Solid**
Date Received: 01/26/22 11:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.93 g	5 mL	192640	01/27/22 21:29	RJD	XEN CC
Total/NA	Prep	5035			4.98 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 19:48	EM	XEN STF
Total/NA	Prep	3550C			30.05 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39315	01/28/22 19:08	LPL	XEN STF
Total/NA	Prep	3546			15.21 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 19:24	PP1	TAL PEN
Total/NA	Prep	8015NM Prep	RA		10.04 g	10 mL	39790	02/01/22 12:48	SAR	XEN STF
Total/NA	Analysis	8015B NM	RA	1			39915	02/02/22 19:40	T1S	XEN STF
Total/NA	Prep	3550C			29.95 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			39319	01/28/22 16:17	WP	XEN STF
Total/NA	Prep	3550C			29.95 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			39187	01/27/22 20:49	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.46 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 11:28	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.93 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38814	01/27/22 12:25	ANP	XEN STF
Total/NA	Prep	300_Prep			4.93 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38815	01/27/22 12:25	ANP	XEN STF
Total/NA	Prep	6860			10.28 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:19	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.12 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 12:40	AGCM	TAL DEN
Total/NA	Prep	3051A			.52 g	50 mL	39983	02/02/22 12:57	PB	XEN STF
Total/NA	Analysis	6020A		10			40322	02/04/22 13:33	DCL	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	39207	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 13:00	SHZ	XEN STF
Total/NA	Prep	9012A			0.4937 g	6 mL	40711	02/08/22 15:02	CM1	XEN STF
Total/NA	Analysis	9012A		1			40738	02/08/22 16:54	CM1	XEN STF
Soluble	Leach	DI Leach			20.01 g	20 mL	40687	02/08/22 12:55	TL	XEN STF
Soluble	Analysis	9045D		1	20.01 g	20 mL	40717	02/08/22 15:18	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:30	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			291.7000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552703	02/28/22 14:43	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

Laboratory: Eurofins St. Louis

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

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

Job ID: 860-19745-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19745-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19745-1	Cell18-Square 180-S-3-4-220125	Solid	01/25/22 08:35	01/26/22 11:22
860-19745-2	Cell18-Square 34-S-3-4-220125	Solid	01/25/22 09:05	01/26/22 11:22

Page 407 of 959

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Cory Rodriguez	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-599-5594	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1-1
Company: ARCADIS U.S. Inc.				Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Standard			
State, Zip: CO, 80129-2377	PO #:			
Phone: 303-710-7537(Tel)	WO #:			
Email: Alison.Schaffer@arcadis.com	Project #: 86002103			
Project Name: Chevron Jal Land Farm Soils	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B- Volatiles	8270C- Semivolatiles/ 8081 Pesticides/ 8082 PCB	6860 - Perchlorate-Ddenver- soil jar 4 oz	8330B Denver soil jar 4 oz	PFC Denver- plastic 16 oz jar	8270D_AgChem -Pensacola soil jar 4 oz	2540C_Calcd Local Method/ Moisture/ pH 9045	8015B_GRO	8015_DRO/ORO	GA-01_R_ra- Rad 226/228- St Louis- 2 plastic jars 16	9056- Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate; Fluoride	6020/7471- St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note.
			Preservation Code:		X	X														X	
Cell 18-Square 180-5-3-4-220125	1/25/22	0835	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
Cell 18-Square 34-5-3-4-220125	1/25/22	0905	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

Temp 2.5 IR ID:HOU-323
C/F +0.2
Corrected Temp: 2.7

860-19745 Chain of Custody

TB

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

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

Special Instructions/QC Requirements:

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Cory Rodriguez	Date/Time: 1/25/22 1700	Company: Arcadis	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/26/22 11:22	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver. 01/16/2019

Received by OCD: 9/12/2022 9:41:21 AM

Released to Imaging: 10/28/2022 10:00:56 AM

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9688.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19745-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/14/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell18-Square 180-5-3-4-220125 (860-19745-1)	1/25/22	08:35 Central		Solid			X	1	
Cell18-Square 34-5-3-4-220125 (860-19745-2)	1/25/22	09:05 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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature] FED EX	1/26/22		FED EX		
Relinquished by: FED EX	Date/Time:	Company	Received by: [signature]	Date/Time: JAN 28 2022 1120	Company: EA STL
Relinquished by:	Date/Time:	Company	Received by: Autumn R. Johnson	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9687.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19745-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/11/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell18-Square 180-5-3-4-220125 (860-19745-1)	1/25/22	08:35 Central		Solid			X	X	X	2	
Cell18-Square 34-5-3-4-220125 (860-19745-2)	1/25/22	09:05 Central		Solid			X	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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				1/27/22 1005	FTADEN
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: 1.4 IR13 CF-0.2

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9686.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-19745-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 2/14/2022			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell18-Square 180-5-3-4-220125 (860-19745-1)	1/25/22	08:35 Central		Solid			X	1	
Cell18-Square 34-5-3-4-220125 (860-19745-2)	1/25/22	09:05 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 out 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 complicance 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: 1/28/22	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: 1-27-22 1921	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0-0°C IR-8

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9685.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19745-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/11/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B_Solid (MOD) mod	2540C/TX_7Day_T	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell18-Square 180-5-3-4-220125 (860-19745-1)	1/25/22	08:35 Central		Solid			X	X	1	
Cell18-Square 34-5-3-4-220125 (860-19745-2)	1/25/22	09:05 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	1/26/22		[signature]	01/27/2022 1:30	EX
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: 2.9 CF IR-10 2.7

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19745-1

Login Number: 19745 **List Source: Eurofins Houston**
List Number: 1
Creator: Torrez, Lisandra

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	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19745-1

Login Number: 19745 **List Source: Eurofins Houston**
List Number: 2
Creator: Torrez, Lisandra

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19745-1

Login Number: 19745 **List Source: Eurofins Corpus Christi**
List Number: 3 **List Creation: 01/27/22 01:39 PM**
Creator: Forrester, Caitlyn D

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.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19745-1

Login Number: 19745 **List Source: Eurofins Denver**
List Number: 5 **List Creation: 01/27/22 04:37 PM**
Creator: Rystrom, Joshua R

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	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	COC not relinquished.
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").	True	
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: 860-19745-1

Login Number: 19745 **List Source: Eurofins Pensacola**
List Number: 4 **List Creation: 01/27/22 04:55 PM**
Creator: Whitley, Adrian

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	0.0°C IR8
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: 860-19745-1

Login Number: 19745 **List Source: Eurofins St. Louis**
List Number: 6 **List Creation: 02/01/22 12:03 PM**
Creator: Johnson, Autumn R

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	
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.	N/A	

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ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19754-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
2/28/2022 5:54:05 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

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

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

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

Laboratory Job ID: 860-19754-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA TICs

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

GC Semi VOA

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

HPLC/IC

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.

LCMS

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding 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.

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	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.
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.
¤	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)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19754-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19754-1

Receipt
The samples were received on 1/26/2022 11:22 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 5.3°C

GC/MS VOA
Method 8260B: The following analyte recovered outside control limits for the LCS associated with analytical batch 560-192640: Tetrachloroethene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been 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_AgChem: Internal standard (ISTD) response for Prometon for the following samples in analytical batch 400-565810 was outside acceptance criteria: Cell18-Square 134-S-3-4-220125 (860-19754-1), Cell18-Square 23-S-3-4-220125 (860-19754-2), (LCS 400-565562/2-A), (MB 400-565562/1-A), (860-19619-G-1-C), (860-19619-G-1-A MS) and (860-19619-G-1-B MSD). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

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

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

PCBs
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_48H: The method blank for preparation batch 860-39027 and analytical batch 860-38815 contained nitrite above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction <and_or> re-analysis of samples was not performed.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell18-Square 134-S-3-4-220125 (860-19754-1) and Cell18-Square 23-S-3-4-220125 (860-19754-2) in preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell18-Square 134-S-3-4-220125 (860-19754-1) and Cell18-Square 23-S-3-4-220125 (860-19754-2). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell18-Square 134-S-3-4-220125 (860-19754-1) and Cell18-Square 23-S-3-4-220125 (860-19754-2) in preparation batch 280-564725 and 280-565272 by 8330B_Sonc_10g for 8330B.

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

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19754-1 (Continued)

Laboratory: Eurofins Houston (Continued)

LCMS

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

PFAS

Method PFC: In preparation batch 280-565681, the following samples were re-prepared outside of preparation holding time due to the samples in the original batch being extracted but not filtered and sent on to the instrument analyst: Cell18-Square 134-S-3-4-220125 (860-19754-1) and Cell18-Square 23-S-3-4-220125 (860-19754-2). Method PFC_Leach/PFC.

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

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 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 AnalyteTh-234 Pa-234Th-234 U-238Pb-210 Po-210 Pb-210 Bi-210Cs-137 Ba-137mPb-212 Po-216Xe-131m Xe-131Sb-125 Te-125mAg-108m Ag-108Rh-106 Ru-106Pb-212 Th-228Pb-212 Ra-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. Cell18-Square 134-S-3-4-220125 (860-19754-1), Cell18-Square 23-S-3-4-220125 (860-19754-2), (LCS 160-549553/2-A), (MB 160-549553/1-A), (860-19990-D-2-B) and (860-19990-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 134-S-3-4-220125 Lab Sample ID: 860-19754-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.29	J	10.2	3.61	mg/Kg	1		9056A	Total/NA
Nitrate as N	15.0		1.02	0.110	mg/Kg	1		9056A	Total/NA
Fluoride	5.04	J	5.10	1.02	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.114	J b	1.02	0.0510	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	15.1	b	1.02	0.00510	mg/Kg	1		9056A	Total/NA
Sulfate	62.8		10.2	4.41	mg/Kg	1		9056A	Total/NA
Perchlorate	0.126	J	0.472	0.0777	ug/Kg	1		6860	Total/NA
Arsenic	2.60	J	3.64	0.561	mg/Kg	10		6020A	Total/NA
Barium	398		3.64	0.315	mg/Kg	10		6020A	Total/NA
Chromium	2.04	J	3.64	0.247	mg/Kg	10		6020A	Total/NA
Copper	1.01	J	3.64	0.237	mg/Kg	10		6020A	Total/NA
Iron	1510		18.2	2.13	mg/Kg	10		6020A	Total/NA
Manganese	18.6		1.82	0.231	mg/Kg	10		6020A	Total/NA
Lead	0.881	J	1.82	0.176	mg/Kg	10		6020A	Total/NA
Antimony	0.127	J	1.82	0.108	mg/Kg	10		6020A	Total/NA
Uranium	0.339	J	0.909	0.0543	mg/Kg	10		6020A	Total/NA
Zinc	9.78		3.64	0.402	mg/Kg	10		6020A	Total/NA
Mercury	0.00632	J	0.0189	0.00363	mg/Kg	1		7471A	Total/NA
Cyanide, Total	35.8	J	60.6	30.0	ug/Kg	1		9012A	Total/NA
pH	9.0	HF			SU	1		9045D	Soluble
Total Dissolved Solids	135		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell18-Square 23-S-3-4-220125 Lab Sample ID: 860-19754-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	4.52		0.984	0.106	mg/Kg	1		9056A	Total/NA
Fluoride	3.56	J	4.92	0.984	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.0793	J b	0.984	0.0492	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	4.60	b	0.984	0.00492	mg/Kg	1		9056A	Total/NA
Sulfate	29.4		9.84	4.25	mg/Kg	1		9056A	Total/NA
Arsenic	2.66	J	3.64	0.561	mg/Kg	10		6020A	Total/NA
Barium	171		3.64	0.315	mg/Kg	10		6020A	Total/NA
Chromium	1.88	J	3.64	0.247	mg/Kg	10		6020A	Total/NA
Copper	0.835	J	3.64	0.237	mg/Kg	10		6020A	Total/NA
Iron	1600		18.2	2.13	mg/Kg	10		6020A	Total/NA
Manganese	16.9		1.82	0.231	mg/Kg	10		6020A	Total/NA
Lead	0.990	J	1.82	0.176	mg/Kg	10		6020A	Total/NA
Uranium	0.316	J	0.909	0.0543	mg/Kg	10		6020A	Total/NA
Zinc	6.05		3.64	0.402	mg/Kg	10		6020A	Total/NA
Mercury	0.00441	J	0.0196	0.00377	mg/Kg	1		7471A	Total/NA
Cyanide, Total	31.1	J	60.1	29.8	ug/Kg	1		9012A	Total/NA
pH	9.0	HF			SU	1		9045D	Soluble
Total Dissolved Solids	112		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 134-S-3-4-220125 **Lab Sample ID: 860-19754-1**
Date Collected: 01/25/22 10:02 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.664	U	4.55	0.664	ug/Kg			01/31/22 17:57	1
Chloromethane	1.09	U	4.55	1.09	ug/Kg			01/31/22 17:57	1
Vinyl chloride	0.545	U	4.55	0.545	ug/Kg			01/31/22 17:57	1
Bromomethane	1.00	U	4.55	1.00	ug/Kg			01/31/22 17:57	1
Trichlorofluoromethane	0.455	U	4.55	0.455	ug/Kg			01/31/22 17:57	1
Acrolein	7.82	U	45.5	7.82	ug/Kg			01/31/22 17:57	1
1,1-Dichloroethene	0.455	U	4.55	0.455	ug/Kg			01/31/22 17:57	1
trans-1,2-Dichloroethene	0.455	U	4.55	0.455	ug/Kg			01/31/22 17:57	1
Methyl tert-butyl ether	0.555	U	4.55	0.555	ug/Kg			01/31/22 17:57	1
1,3-Dichlorobenzene	0.282	U	4.55	0.282	ug/Kg			01/31/22 17:57	1
Methylene Chloride	4.55	U	22.7	4.55	ug/Kg			01/31/22 17:57	1
Acrylonitrile	3.27	U	45.5	3.27	ug/Kg			01/31/22 17:57	1
cis-1,2-Dichloroethene	0.518	U	4.55	0.518	ug/Kg			01/31/22 17:57	1
Carbon tetrachloride	0.464	U	4.55	0.464	ug/Kg			01/31/22 17:57	1
Benzene	0.573	U	4.55	0.573	ug/Kg			01/31/22 17:57	1
1,2-Dichloroethane	0.473	U	4.55	0.473	ug/Kg			01/31/22 17:57	1
Trichloroethene	0.255	U	4.55	0.255	ug/Kg			01/31/22 17:57	1
1,1,1-Trichloroethane	0.455	U	4.55	0.455	ug/Kg			01/31/22 17:57	1
1,1-Dichloroethane	0.536	U	4.55	0.536	ug/Kg			01/31/22 17:57	1
1,2-Dichloropropane	0.455	U	4.55	0.455	ug/Kg			01/31/22 17:57	1
1,4-Dioxane	17.3	U	90.9	17.3	ug/Kg			01/31/22 17:57	1
Chloroform	0.791	U	4.55	0.791	ug/Kg			01/31/22 17:57	1
Bromodichloromethane	0.182	U	4.55	0.182	ug/Kg			01/31/22 17:57	1
1,1-Dichloropropene	0.473	U	4.55	0.473	ug/Kg			01/31/22 17:57	1
cis-1,3-Dichloropropene	0.409	U	4.55	0.409	ug/Kg			01/31/22 17:57	1
Toluene	0.818	U	4.55	0.818	ug/Kg			01/31/22 17:57	1
trans-1,3-Dichloropropene	0.473	U	4.55	0.473	ug/Kg			01/31/22 17:57	1
1,1,2-Trichloroethane	0.455	U	4.55	0.455	ug/Kg			01/31/22 17:57	1
Tetrachloroethene	0.673	U	4.55	0.673	ug/Kg			01/31/22 17:57	1
1,3-Dichloropropene, Total	0.473	U	4.55	0.473	ug/Kg			01/31/22 17:57	1
1,2-Dibromoethane	0.273	U	4.55	0.273	ug/Kg			01/31/22 17:57	1
Monochlorobenzene	0.273	U	4.55	0.273	ug/Kg			01/31/22 17:57	1
Ethylbenzene	0.409	U	4.55	0.409	ug/Kg			01/31/22 17:57	1
Xylenes, Total	0.455	U	9.09	0.455	ug/Kg			01/31/22 17:57	1
Styrene	0.273	U	4.55	0.273	ug/Kg			01/31/22 17:57	1
Tribromomethane	0.464	U	4.55	0.464	ug/Kg			01/31/22 17:57	1
1,1,2,2-Tetrachloroethane	0.345	U	4.55	0.345	ug/Kg			01/31/22 17:57	1
1,4-Dichlorobenzene	0.291	U	4.55	0.291	ug/Kg			01/31/22 17:57	1
1,2-Dichlorobenzene	0.227	U	4.55	0.227	ug/Kg			01/31/22 17:57	1
1,2,4-Trichlorobenzene	0.882	U	4.55	0.882	ug/Kg			01/31/22 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*		*01/31/22 17:57*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/31/22 17:57*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 136*		*01/31/22 17:57*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*01/31/22 17:57*	*1*

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00253	U	0.00505	0.00253	mg/Kg		02/01/22 11:08	02/01/22 20:10	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 134-S-3-4-220125
Lab Sample ID: 860-19754-1
Date Collected: 01/25/22 10:02
Matrix: Solid
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		63 - 144	02/01/22 11:08	02/01/22 20:10	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.6	U	64.0	11.6	ug/Kg		02/04/22 15:17	02/08/22 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	68		30 - 164	02/04/22 15:17	02/08/22 19:49	1

Method: 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		01/27/22 07:14	01/28/22 19:29	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
2,4-Dinitrotoluene	12.8	U	167	12.8	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Dinitrophenols	24.3	U	334	24.3	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
2,4-Dichlorophenol	17.5	U	167	17.5	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Dichlorobenzidine, 3,3'-	15.4	U	334	15.4	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
4,6-Dinitro-2-methylphenol	12.7	U	334	12.7	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Di (2-ethylhexyl)phthalate	167	U	334	167	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Chrysene	16.6	U	167	16.6	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Dibutylphthalate	16.1	U	167	16.1	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Fluorene	13.9	U	167	13.9	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Hexachlorobutadiene	13.9	U	167	13.9	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Indeno[1,2,3-cd]pyrene	13.5	U	167	13.5	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
N-Nitrosodiethylamine	22.0	U	167	22.0	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
N-Nitrosodiphenylamine	18.7	U	167	18.7	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/28/22 19:29	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 134-S-3-4-220125 **Lab Sample ID: 860-19754-1**
Date Collected: 01/25/22 10:02 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Pentachlorophenol	12.2	U	334	12.2	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Naphthalene	15.7	U	167	15.7	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
2-Methylnaphthalene	45.3	U	167	45.3	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Benzidine	12.1	U	334	12.1	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Phenol	0.0150	U	0.334	0.0150	mg/Kg		01/27/22 07:14	01/28/22 19:29	1
N-Nitrosodimethylamine	16.8	U	167	16.8	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Atrazine	16.5	U	334	16.5	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Thiophene, tetrahydro-, 1,1-dioxide	334	U	334	334	ug/Kg		01/27/22 07:14	01/28/22 19:29	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*	*01/27/22 07:14*	*01/28/22 19:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*98*		*30 - 115*	*01/27/22 07:14*	*01/28/22 19:29*	*1*
2-Fluorophenol	*89*		*25 - 121*	*01/27/22 07:14*	*01/28/22 19:29*	*1*
2,4,6-Tribromophenol	*111*		*19 - 122*	*01/27/22 07:14*	*01/28/22 19:29*	*1*
Nitrobenzene-d5	*95*		*23 - 129*	*01/27/22 07:14*	*01/28/22 19:29*	*1*
Phenol-d5 (Surr)	*89*		*24 - 113*	*01/27/22 07:14*	*01/28/22 19:29*	*1*
p-Terphenyl-d14 (Surr)	*121*		*18 - 137*	*01/27/22 07:14*	*01/28/22 19:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.1	21.1	mg/Kg		02/01/22 12:49	02/02/22 20:39	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		02/01/22 12:49	02/02/22 20:39	1
OII Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		02/01/22 12:49	02/02/22 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*65 - 130*	*02/01/22 12:49*	*02/02/22 20:39*	*1*
o-Terphenyl (Surr)	*100*		*65 - 130*	*02/01/22 12:49*	*02/02/22 20:39*	*1*

Method: 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		01/26/22 08:34	01/28/22 16:31	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Endosulfan sulfate	0.276	U	0.832	0.276	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Endrin	0.291	U	0.832	0.291	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/26/22 08:34	01/28/22 16:31	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 134-S-3-4-220125 **Lab Sample ID: 860-19754-1**
Date Collected: 01/25/22 10:02 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.562	U	0.832	0.562	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Heptachlor epoxide	0.245	U	0.832	0.245	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/26/22 08:34	01/28/22 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*35 - 135*	*01/26/22 08:34*	*01/28/22 16:31*	*1*
DCB Decachlorobiphenyl (Surr)	*59*		*25 - 143*	*01/26/22 08:34*	*01/28/22 16:31*	*1*

Method: 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		01/26/22 08:34	01/27/22 20:59	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:59	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:59	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:59	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:59	1
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		01/26/22 08:34	01/27/22 20:59	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		01/26/22 08:34	01/27/22 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*35 - 140*	*01/26/22 08:34*	*01/27/22 20:59*	*1*
DCB Decachlorobiphenyl (Surr)	*121*		*37 - 142*	*01/26/22 08:34*	*01/27/22 20:59*	*1*

Method: 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	0.0224	U	0.0987	0.0224	mg/Kg		02/05/22 11:25	02/10/22 11:51	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0424	U	0.197	0.0424	mg/Kg		02/05/22 11:25	02/10/22 11:51	1
2,4,6-Trinitrotoluene	0.0303	U	0.0987	0.0303	mg/Kg		02/05/22 11:25	02/10/22 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*105*		*83 - 122*	*02/05/22 11:25*	*02/10/22 11:51*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.29**	**J**	10.2	3.61	mg/Kg		01/26/22 15:18	01/27/22 12:37	1
Nitrate as N	**15.0**		1.02	0.110	mg/Kg		01/26/22 15:18	01/27/22 12:37	1
Fluoride	**5.04**	**J**	5.10	1.02	mg/Kg		01/26/22 15:18	01/27/22 12:37	1
Nitrite as N	**0.114**	**J b**	1.02	0.0510	mg/Kg		01/26/22 15:18	01/27/22 12:37	1
Nitrate Nitrite as N	**15.1**	**b**	1.02	0.00510	mg/Kg		01/26/22 15:18	01/27/22 12:37	1
Sulfate	**62.8**		10.2	4.41	mg/Kg		01/26/22 15:18	01/27/22 12:37	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.126**	**J**	0.472	0.0777	ug/Kg		02/03/22 17:49	02/08/22 19:24	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.229	U H	0.797	0.229	ug/Kg		02/10/22 11:04	02/16/22 12:58	1
Perfluorohexanesulfonic acid (PFHxS)	0.279	U H	0.797	0.279	ug/Kg		02/10/22 11:04	02/16/22 12:58	1
Perfluorooctanesulfonic acid (PFOS)	0.139	U H	0.797	0.139	ug/Kg		02/10/22 11:04	02/16/22 12:58	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 134-S-3-4-220125 **Lab Sample ID: 860-19754-1**
Date Collected: 01/25/22 10:02 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	102		57 - 153	02/10/22 11:04	02/16/22 12:58	1
13C8 PFOS	107		70 - 130	02/10/22 11:04	02/16/22 12:58	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.144	U	1.82	0.144	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Arsenic	**2.60**	**J**	3.64	0.561	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Barium	**398**		3.64	0.315	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Beryllium	0.168	U	1.82	0.168	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Cadmium	0.105	U	1.82	0.105	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Chromium	**2.04**	**J**	3.64	0.247	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Copper	**1.01**	**J**	3.64	0.237	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Iron	**1510**		18.2	2.13	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Manganese	**18.6**		1.82	0.231	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Lead	**0.881**	**J**	1.82	0.176	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Antimony	**0.127**	**J**	1.82	0.108	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Selenium	0.451	U	1.82	0.451	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Thallium	0.217	U	1.82	0.217	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Uranium	**0.339**	**J**	0.909	0.0543	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Zinc	**9.78**		3.64	0.402	mg/Kg		02/02/22 12:57	02/04/22 13:36	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00632**	**J**	0.0189	0.00363	mg/Kg		01/28/22 08:00	01/28/22 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**35.8**	**J**	60.6	30.0	ug/Kg		02/08/22 15:02	02/08/22 16:24	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:33	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.0**	**HF**			SU			02/08/22 15:18	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**135**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**1.24**		0.196	0.234	1.00	0.131	pCi/g	02/07/22 10:12	02/28/22 10:59	1
Radium-228	0.0720	U	0.228	0.228		0.281	pCi/g	02/07/22 10:12	02/28/22 10:59	1
Combined Radium 226 + 228	**1.31**		0.301	0.327		0.281	pCi/g	02/07/22 10:12	02/28/22 10:59	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 23-S-3-4-220125
Lab Sample ID: 860-19754-2
Date Collected: 01/25/22 09:35
Matrix: Solid
Date Received: 01/26/22 11:22

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.617	U	4.22	0.617	ug/Kg			01/27/22 22:20	1
Chloromethane	1.01	U	4.22	1.01	ug/Kg			01/27/22 22:20	1
Vinyl chloride	0.507	U	4.22	0.507	ug/Kg			01/27/22 22:20	1
Bromomethane	0.929	U	4.22	0.929	ug/Kg			01/27/22 22:20	1
Trichlorofluoromethane	0.422	U	4.22	0.422	ug/Kg			01/27/22 22:20	1
Acrolein	7.26	U	42.2	7.26	ug/Kg			01/27/22 22:20	1
1,1-Dichloroethene	0.422	U	4.22	0.422	ug/Kg			01/27/22 22:20	1
trans-1,2-Dichloroethene	0.422	U	4.22	0.422	ug/Kg			01/27/22 22:20	1
Methyl tert-butyl ether	0.515	U	4.22	0.515	ug/Kg			01/27/22 22:20	1
1,3-Dichlorobenzene	0.262	U	4.22	0.262	ug/Kg			01/27/22 22:20	1
Methylene Chloride	4.22	U	21.1	4.22	ug/Kg			01/27/22 22:20	1
Acrylonitrile	3.04	U	42.2	3.04	ug/Kg			01/27/22 22:20	1
cis-1,2-Dichloroethene	0.481	U	4.22	0.481	ug/Kg			01/27/22 22:20	1
Carbon tetrachloride	0.431	U	4.22	0.431	ug/Kg			01/27/22 22:20	1
Benzene	0.532	U	4.22	0.532	ug/Kg			01/27/22 22:20	1
1,2-Dichloroethane	0.439	U	4.22	0.439	ug/Kg			01/27/22 22:20	1
Trichloroethene	0.236	U	4.22	0.236	ug/Kg			01/27/22 22:20	1
1,1,1-Trichloroethane	0.422	U	4.22	0.422	ug/Kg			01/27/22 22:20	1
1,1-Dichloroethane	0.498	U	4.22	0.498	ug/Kg			01/27/22 22:20	1
1,2-Dichloropropane	0.422	U	4.22	0.422	ug/Kg			01/27/22 22:20	1
1,4-Dioxane	16.0	U	84.5	16.0	ug/Kg			01/27/22 22:20	1
Chloroform	0.735	U	4.22	0.735	ug/Kg			01/27/22 22:20	1
Bromodichloromethane	0.169	U	4.22	0.169	ug/Kg			01/27/22 22:20	1
1,1-Dichloropropene	0.439	U	4.22	0.439	ug/Kg			01/27/22 22:20	1
cis-1,3-Dichloropropene	0.380	U	4.22	0.380	ug/Kg			01/27/22 22:20	1
Toluene	0.760	U	4.22	0.760	ug/Kg			01/27/22 22:20	1
trans-1,3-Dichloropropene	0.439	U	4.22	0.439	ug/Kg			01/27/22 22:20	1
1,1,2-Trichloroethane	0.422	U	4.22	0.422	ug/Kg			01/27/22 22:20	1
Tetrachloroethene	0.625	U *	4.22	0.625	ug/Kg			01/27/22 22:20	1
1,3-Dichloropropene, Total	0.439	U	4.22	0.439	ug/Kg			01/27/22 22:20	1
1,2-Dibromoethane	0.253	U	4.22	0.253	ug/Kg			01/27/22 22:20	1
Monochlorobenzene	0.253	U	4.22	0.253	ug/Kg			01/27/22 22:20	1
Ethylbenzene	0.380	U	4.22	0.380	ug/Kg			01/27/22 22:20	1
Xylenes, Total	0.422	U	8.45	0.422	ug/Kg			01/27/22 22:20	1
Styrene	0.253	U	4.22	0.253	ug/Kg			01/27/22 22:20	1
Tribromomethane	0.431	U	4.22	0.431	ug/Kg			01/27/22 22:20	1
1,1,2,2-Tetrachloroethane	0.321	U	4.22	0.321	ug/Kg			01/27/22 22:20	1
1,4-Dichlorobenzene	0.270	U	4.22	0.270	ug/Kg			01/27/22 22:20	1
1,2-Dichlorobenzene	0.211	U	4.22	0.211	ug/Kg			01/27/22 22:20	1
1,2,4-Trichlorobenzene	0.819	U	4.22	0.819	ug/Kg			01/27/22 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 152*		*01/27/22 22:20*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 22:20*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 22:20*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*01/27/22 22:20*	*1*

Method: 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	0.00497	0.00249	mg/Kg		02/01/22 11:08	02/01/22 20:32	1

Eurofins Houston

Client Sample Results

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

Job ID: 860-19754-1

Client Sample ID: Cell18-Square 23-S-3-4-220125

Date Collected: 01/25/22 09:35
Date Received: 01/26/22 11:22

Lab Sample ID: 860-19754-2

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*	*02/01/22 11:08*	*02/01/22 20:32*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.7	U	64.5	11.7	ug/Kg		02/04/22 15:17	02/08/22 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*83*	*	*30 - 164*	*02/04/22 15:17*	*02/08/22 20:15*	*1*

Method: 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		01/27/22 07:14	01/28/22 19:49	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Dinitrophenols	24.2	U	334	24.2	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Dichlorobenzidine, 3,3'-	15.4	U	334	15.4	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
4,6-Dinitro-2-methylphenol	12.7	U	334	12.7	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Di (2-ethylhexyl)phthalate	167	U	334	167	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Dibutylphthalate	16.1	U	167	16.1	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/28/22 19:49	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 23-S-3-4-220125
Lab Sample ID: 860-19754-2
Date Collected: 01/25/22 09:35
Matrix: Solid
Date Received: 01/26/22 11:22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Pentachlorophenol	12.1	U	334	12.1	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Benzidine	12.1	U	334	12.1	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Phenol	0.0150	U	0.334	0.0150	mg/Kg		01/27/22 07:14	01/28/22 19:49	1
N-Nitrosodimethylamine	16.8	U	167	16.8	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Atrazine	16.5	U	334	16.5	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	334	333	ug/Kg		01/27/22 07:14	01/28/22 19:49	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*	*01/27/22 07:14*	*01/28/22 19:49*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*99*		*30 - 115*	*01/27/22 07:14*	*01/28/22 19:49*	*1*
2-Fluorophenol	*91*		*25 - 121*	*01/27/22 07:14*	*01/28/22 19:49*	*1*
2,4,6-Tribromophenol	*113*		*19 - 122*	*01/27/22 07:14*	*01/28/22 19:49*	*1*
Nitrobenzene-d5	*93*		*23 - 129*	*01/27/22 07:14*	*01/28/22 19:49*	*1*
Phenol-d5 (Surr)	*89*		*24 - 113*	*01/27/22 07:14*	*01/28/22 19:49*	*1*
p-Terphenyl-d14 (Surr)	*125*		*18 - 137*	*01/27/22 07:14*	*01/28/22 19:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.8	U	49.3	20.8	mg/Kg		02/01/22 12:49	02/01/22 22:08	1
Diesel Range Organics (Over C10-C28)	20.8	U	49.3	20.8	mg/Kg		02/01/22 12:49	02/01/22 22:08	1
OII Range Organics (Over C28-C36)	20.8	U	49.3	20.8	mg/Kg		02/01/22 12:49	02/01/22 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*65 - 130*	*02/01/22 12:49*	*02/01/22 22:08*	*1*
o-Terphenyl (Surr)	*114*		*65 - 130*	*02/01/22 12:49*	*02/01/22 22:08*	*1*

Method: 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		01/26/22 08:34	01/28/22 16:45	1
Aldrin	0.363	U	0.834	0.363	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Hexachlorocyclohexane, alpha-	0.681	U	0.834	0.681	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Hexachlorocyclohexane, beta-	0.474	U	0.834	0.474	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Hexachlorocyclohexane, delta-	0.834	U	0.834	0.834	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Dieldrin	0.170	U	0.834	0.170	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Endosulfan I	0.202	U	0.834	0.202	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Endosulfan II	0.372	U	0.834	0.372	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Endosulfan sulfate	0.276	U	0.834	0.276	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Endrin	0.291	U	0.834	0.291	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Endrin aldehyde	0.248	U	0.834	0.248	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Hexachlorocyclohexane, gamma-	0.439	U	0.834	0.439	ug/Kg		01/26/22 08:34	01/28/22 16:45	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 23-S-3-4-220125 **Lab Sample ID: 860-19754-2**
Date Collected: 01/25/22 09:35 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.563	U	0.834	0.563	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Heptachlor epoxide	0.245	U	0.834	0.245	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/26/22 08:34	01/28/22 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*35 - 135*	*01/26/22 08:34*	*01/28/22 16:45*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*25 - 143*	*01/26/22 08:34*	*01/28/22 16:45*	*1*

Method: 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		01/26/22 08:34	01/27/22 21:08	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/27/22 21:08	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/27/22 21:08	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/27/22 21:08	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/27/22 21:08	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/27/22 21:08	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/27/22 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*35 - 140*	*01/26/22 08:34*	*01/27/22 21:08*	*1*
DCB Decachlorobiphenyl (Surr)	*118*		*37 - 142*	*01/26/22 08:34*	*01/27/22 21:08*	*1*

Method: 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	0.0963	0.0219	mg/Kg		02/05/22 11:25	02/10/22 12:14	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0414	U	0.193	0.0414	mg/Kg		02/05/22 11:25	02/10/22 12:14	1
2,4,6-Trinitrotoluene	0.0296	U	0.0963	0.0296	mg/Kg		02/05/22 11:25	02/10/22 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*108*		*83 - 122*	*02/05/22 11:25*	*02/10/22 12:14*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.48	U	9.84	3.48	mg/Kg		01/26/22 15:18	01/27/22 12:49	1
Nitrate as N	**4.52**		0.984	0.106	mg/Kg		01/26/22 15:18	01/27/22 12:49	1
Fluoride	**3.56**	**J**	4.92	0.984	mg/Kg		01/26/22 15:18	01/27/22 12:49	1
Nitrite as N	**0.0793**	**J b**	0.984	0.0492	mg/Kg		01/26/22 15:18	01/27/22 12:49	1
Nitrate Nitrite as N	**4.60**	**b**	0.984	0.00492	mg/Kg		01/26/22 15:18	01/27/22 12:49	1
Sulfate	**29.4**		9.84	4.25	mg/Kg		01/26/22 15:18	01/27/22 12:49	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0791	U	0.480	0.0791	ug/Kg		02/03/22 17:49	02/08/22 19:29	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.219	U H	0.763	0.219	ug/Kg		02/10/22 11:04	02/16/22 13:06	1
Perfluorohexanesulfonic acid (PFHxS)	0.267	U H	0.763	0.267	ug/Kg		02/10/22 11:04	02/16/22 13:06	1
Perfluorooctanesulfonic acid (PFOS)	0.134	U H	0.763	0.134	ug/Kg		02/10/22 11:04	02/16/22 13:06	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 23-S-3-4-220125 **Lab Sample ID: 860-19754-2**
Date Collected: 01/25/22 09:35 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	02/10/22 11:04	02/16/22 13:06	1
13C8 PFOS	106		70 - 130	02/10/22 11:04	02/16/22 13:06	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.144	U	1.82	0.144	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Arsenic	**2.66**	**J**	3.64	0.561	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Barium	**171**		3.64	0.315	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Beryllium	0.168	U	1.82	0.168	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Cadmium	0.105	U	1.82	0.105	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Chromium	**1.88**	**J**	3.64	0.247	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Copper	**0.835**	**J**	3.64	0.237	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Iron	**1600**		18.2	2.13	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Manganese	**16.9**		1.82	0.231	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Lead	**0.990**	**J**	1.82	0.176	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Antimony	0.108	U	1.82	0.108	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Selenium	0.451	U	1.82	0.451	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Thallium	0.217	U	1.82	0.217	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Uranium	**0.316**	**J**	0.909	0.0543	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Zinc	**6.05**		3.64	0.402	mg/Kg		02/02/22 12:57	02/04/22 13:39	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00441**	**J**	0.0196	0.00377	mg/Kg		01/28/22 08:00	01/28/22 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**31.1**	**J**	60.1	29.8	ug/Kg		02/08/22 15:02	02/08/22 16:28	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:35	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.0**	**HF**			SU			02/08/22 15:18	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**112**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**1.73**		0.242	0.300	1.00	0.0623	pCi/g	02/07/22 10:12	02/28/22 11:00	1
Radium-228	0.183	U	0.325	0.326		0.373	pCi/g	02/07/22 10:12	02/28/22 11:00	1
Combined Radium 226 + 228	**1.92**		0.405	0.443		0.373	pCi/g	02/07/22 10:12	02/28/22 11:00	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(65-152)	(65-139)	(50-136)	(61-142)
860-19754-1	Cell18-Square 134-S-3-4-220125	94	95	94	109
860-19754-2	Cell18-Square 23-S-3-4-220125	92	95	93	111
LCS 560-192640/3	Lab Control Sample	94	94	96	116
LCS 560-192708/3	Lab Control Sample	97	95	97	116
LCSD 560-192640/4	Lab Control Sample Dup	94	95	96	117
MB 560-192640/7	Method Blank	92	95	93	111
MB 560-192708/7	Method Blank	93	94	94	109

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID				
LCSD 560-192708/4	Lab Control Sample Dup				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCA
Lab Sample ID	Client Sample ID	(63-144)
860-19754-1	Cell18-Square 134-S-3-4-220125	93
860-19754-2	Cell18-Square 23-S-3-4-220125	90
LCS 860-39864/11	Lab Control Sample	90
LCSD 860-39864/12	Lab Control Sample Dup	92
MB 860-39864/16	Method Blank	91

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19754-1	Cell18-Square 134-S-3-4-220125	68

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Pesticides by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		TPP								
Lab Sample ID	Client Sample ID	(30-164)								
860-19754-2	Cell18-Square 23-S-3-4-220125	83 *								
LCS 400-565562/2-A	Lab Control Sample	95 *								
MB 400-565562/1-A	Method Blank	80								

Surrogate Legend

TPP = Triphenylphosphate

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		FBP	2FP	TBP	NBZ	PHL	TPHd14		
Lab Sample ID	Client Sample ID	(30-115)	(25-121)	(19-122)	(23-129)	(24-113)	(18-137)		
860-19754-1	Cell18-Square 134-S-3-4-220125	98	89	111	95	89	121		
860-19754-2	Cell18-Square 23-S-3-4-220125	99	91	113	93	89	125		

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		1CO1	OTPH1						
Lab Sample ID	Client Sample ID	(65-130)	(65-130)						
860-19754-1 - RA	Cell18-Square 134-S-3-4-220125	109	100						
860-19754-2	Cell18-Square 23-S-3-4-220125	113	114						
LCS 860-39790/2-A - RA	Lab Control Sample	107	100						
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	110	103						
MB 860-39790/1-A - RA	Method Blank	105	97						

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TCX1	DCB1						
Lab Sample ID	Client Sample ID	(35-135)	(25-143)						
860-19754-1	Cell18-Square 134-S-3-4-220125	75	59						
860-19754-2	Cell18-Square 23-S-3-4-220125	72	65						
LCS 860-38890/2-A	Lab Control Sample	88	107						
LCSD 860-38890/3-A	Lab Control Sample Dup	86	107						
MB 860-38890/1-A	Method Blank	95	115						

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

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)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(35-140)	(37-142)
860-19754-1	Cell18-Square 134-S-3-4-220125	63	121
860-19754-2	Cell18-Square 23-S-3-4-220125	60	118
LCS 860-38890/4-A	Lab Control Sample	72	86
LCSD 860-38890/5-A	Lab Control Sample Dup	67	87
MB 860-38890/1-A	Method Blank	80	91

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)
		12DNB1
Lab Sample ID	Client Sample ID	(83-122)
860-19754-1	Cell18-Square 134-S-3-4-220125	105
860-19754-2	Cell18-Square 23-S-3-4-220125	108
LCS 280-565272/2-A	Lab Control Sample	99
MB 280-565272/1-A	Method Blank	105

Surrogate Legend
12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		C8PFOA	C8PFOS
Lab Sample ID	Client Sample ID	(57-153)	(70-130)
860-19754-1	Cell18-Square 134-S-3-4-220125	102	107
860-19754-2	Cell18-Square 23-S-3-4-220125	104	106
DLCK 280-556129/13	Lab Control Sample	98	105
LCS 280-565681/2-A	Lab Control Sample	104	108
MB 280-565681/1-A	Method Blank	104	107

Surrogate Legend
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS

QC Sample Results

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

Job ID: 860-19754-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192640/7
Matrix: Solid
Analysis Batch: 192640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/27/22 17:15	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/27/22 17:15	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/27/22 17:15	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/27/22 17:15	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/27/22 17:15	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/27/22 17:15	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/27/22 17:15	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/27/22 17:15	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/27/22 17:15	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/27/22 17:15	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/27/22 17:15	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/27/22 17:15	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/27/22 17:15	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/27/22 17:15	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/27/22 17:15	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/27/22 17:15	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/27/22 17:15	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/27/22 17:15	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/27/22 17:15	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/27/22 17:15	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/27/22 17:15	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/27/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 152*		*01/27/22 17:15*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 17:15*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 17:15*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*01/27/22 17:15*	*1*

QC Sample Results

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

Job ID: 860-19754-1

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

Lab Sample ID: LCS 560-192640/3
Matrix: Solid
Analysis Batch: 192640

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	35.80		ug/Kg		89	13 - 130
Chloromethane	40.0	29.10		ug/Kg		73	61 - 137
Vinyl chloride	40.0	34.22		ug/Kg		86	65 - 139
Bromomethane	40.0	32.15		ug/Kg		80	57 - 155
Trichlorofluoromethane	40.0	32.83		ug/Kg		82	68 - 146
Acrolein	395	383.2		ug/Kg		97	20 - 150
1,1-Dichloroethene	40.0	35.68		ug/Kg		89	70 - 130
trans-1,2-Dichloroethene	40.0	35.03		ug/Kg		88	70 - 132
Methyl tert-butyl ether	40.0	37.20		ug/Kg		93	70 - 130
1,3-Dichlorobenzene	40.0	35.27		ug/Kg		88	70 - 130
Methylene Chloride	40.0	33.56		ug/Kg		84	61 - 150
Acrylonitrile	400	374.6		ug/Kg		94	66 - 137
cis-1,2-Dichloroethene	40.0	36.33		ug/Kg		91	70 - 130
Carbon tetrachloride	40.0	31.85		ug/Kg		80	70 - 136
Benzene	40.0	35.70		ug/Kg		89	70 - 131
1,2-Dichloroethane	40.0	31.23		ug/Kg		78	70 - 130
Trichloroethene	40.0	34.26		ug/Kg		86	70 - 130
1,1,1-Trichloroethane	40.0	31.86		ug/Kg		80	70 - 132
1,1-Dichloroethane	40.0	34.37		ug/Kg		86	70 - 130
1,2-Dichloropropane	40.0	36.83		ug/Kg		92	70 - 130
1,4-Dioxane	800	833.9		ug/Kg		104	10 - 150
Chloroform	40.0	32.99		ug/Kg		82	70 - 130
Bromodichloromethane	40.0	34.83		ug/Kg		87	70 - 130
1,1-Dichloropropene	40.0	37.02		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	32.77		ug/Kg		82	70 - 130
Toluene	40.0	32.19		ug/Kg		80	70 - 130
trans-1,3-Dichloropropene	40.0	35.13		ug/Kg		88	70 - 131
1,1,2-Trichloroethane	40.0	33.40		ug/Kg		84	70 - 130
Tetrachloroethene	40.0	27.27	*	ug/Kg		68	70 - 130
1,3-Dichloropropene, Total	80.0	67.90		ug/Kg		85	
1,2-Dibromoethane	40.0	32.91		ug/Kg		82	70 - 130
Monochlorobenzene	40.0	31.49		ug/Kg		79	70 - 130
Ethylbenzene	40.0	35.33		ug/Kg		88	70 - 130
Xylenes, Total	80.0	73.91		ug/Kg		92	70 - 130
Styrene	40.0	36.75		ug/Kg		92	70 - 130
Tribromomethane	40.0	29.36		ug/Kg		73	59 - 137
1,1,2,2-Tetrachloroethane	40.0	38.53		ug/Kg		96	70 - 130
1,4-Dichlorobenzene	40.0	33.92		ug/Kg		85	70 - 130
1,2-Dichlorobenzene	40.0	34.72		ug/Kg		87	70 - 130
1,2,4-Trichlorobenzene	40.0	36.85		ug/Kg		92	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*94*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 560-192640/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192640

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			40.0	40.95		ug/Kg		102	13 - 130	13	30.0
Chloromethane			40.0	32.52		ug/Kg		81	61 - 137	11	30.0
Vinyl chloride			40.0	37.63		ug/Kg		94	65 - 139	9	30.0
Bromomethane			40.0	36.48		ug/Kg		91	57 - 155	13	30.0
Trichlorofluoromethane			40.0	37.52		ug/Kg		94	68 - 146	13	30.0
Acrolein			395	450.0		ug/Kg		114	20 - 150	16	30.0
1,1-Dichloroethene			40.0	40.79		ug/Kg		102	70 - 130	13	30.0
trans-1,2-Dichloroethene			40.0	40.86		ug/Kg		102	70 - 132	15	30.0
Methyl tert-butyl ether			40.0	44.27		ug/Kg		111	70 - 130	17	30.0
1,3-Dichlorobenzene			40.0	39.74		ug/Kg		99	70 - 130	12	30.0
Methylene Chloride			40.0	38.56		ug/Kg		96	61 - 150	14	30.0
Acrylonitrile			400	428.6		ug/Kg		107	66 - 137	13	30.0
cis-1,2-Dichloroethene			40.0	42.79		ug/Kg		107	70 - 130	16	30.0
Carbon tetrachloride			40.0	38.15		ug/Kg		95	70 - 136	18	30.0
Benzene			40.0	41.87		ug/Kg		105	70 - 131	16	30.0
1,2-Dichloroethane			40.0	36.23		ug/Kg		91	70 - 130	15	30.0
Trichloroethene			40.0	39.85		ug/Kg		100	70 - 130	15	30.0
1,1,1-Trichloroethane			40.0	38.48		ug/Kg		96	70 - 132	19	30.0
1,1-Dichloroethane			40.0	40.81		ug/Kg		102	70 - 130	17	30.0
1,2-Dichloropropane			40.0	41.90		ug/Kg		105	70 - 130	13	30.0
1,4-Dioxane			800	907.5		ug/Kg		113	10 - 150	8	30.0
Chloroform			40.0	38.61		ug/Kg		97	70 - 130	16	30.0
Bromodichloromethane			40.0	41.06		ug/Kg		103	70 - 130	16	30.0
1,1-Dichloropropene			40.0	43.32		ug/Kg		108	70 - 130	16	30.0
cis-1,3-Dichloropropene			40.0	38.69		ug/Kg		97	70 - 130	17	30.0
Toluene			40.0	37.88		ug/Kg		95	70 - 130	16	30.0
trans-1,3-Dichloropropene			40.0	40.99		ug/Kg		102	70 - 131	15	30.0
1,1,2-Trichloroethane			40.0	38.17		ug/Kg		95	70 - 130	13	30.0
Tetrachloroethene			40.0	33.02		ug/Kg		83	70 - 130	19	30.0
1,3-Dichloropropene, Total			80.0	79.68		ug/Kg		100		16	30
1,2-Dibromoethane			40.0	37.63		ug/Kg		94	70 - 130	13	30.0
Monochlorobenzene			40.0	36.20		ug/Kg		90	70 - 130	14	30.0
Ethylbenzene			40.0	40.69		ug/Kg		102	70 - 130	14	30.0
Xylenes, Total			80.0	85.81		ug/Kg		107	70 - 130	15	30.0
Styrene			40.0	41.41		ug/Kg		104	70 - 130	12	30.0
Tribromomethane			40.0	33.15		ug/Kg		83	59 - 137	12	30.0
1,1,2,2-Tetrachloroethane			40.0	44.69		ug/Kg		112	70 - 130	15	30.0
1,4-Dichlorobenzene			40.0	38.17		ug/Kg		95	70 - 130	12	30.0
1,2-Dichlorobenzene			40.0	40.46		ug/Kg		101	70 - 130	15	30.0
1,2,4-Trichlorobenzene			40.0	42.88		ug/Kg		107	68 - 140	15	30.0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*117*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 560-192708/7 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192708

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/31/22 17:31	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/31/22 17:31	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/31/22 17:31	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/31/22 17:31	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/31/22 17:31	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/31/22 17:31	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/31/22 17:31	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/31/22 17:31	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/31/22 17:31	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/31/22 17:31	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/31/22 17:31	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/31/22 17:31	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/31/22 17:31	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/31/22 17:31	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/31/22 17:31	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/31/22 17:31	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/31/22 17:31	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/31/22 17:31	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/31/22 17:31	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/31/22 17:31	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/31/22 17:31	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/31/22 17:31	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/31/22 17:31	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/31/22 17:31	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/31/22 17:31	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/31/22 17:31	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/31/22 17:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*65 - 152*		*01/31/22 17:31*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/31/22 17:31*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 136*		*01/31/22 17:31*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*01/31/22 17:31*	*1*

QC Sample Results

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

Job ID: 860-19754-1

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

Lab Sample ID: LCS 560-192708/3
Matrix: Solid
Analysis Batch: 192708

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	34.36		ug/Kg		86	13 - 130
Chloromethane	40.0	27.10		ug/Kg		68	61 - 137
Vinyl chloride	40.0	34.62		ug/Kg		87	65 - 139
Bromomethane	40.0	33.04		ug/Kg		83	57 - 155
Trichlorofluoromethane	40.0	33.86		ug/Kg		85	68 - 146
Acrolein	395	400.4		ug/Kg		101	20 - 150
1,1-Dichloroethene	40.0	36.01		ug/Kg		90	70 - 130
trans-1,2-Dichloroethene	40.0	36.31		ug/Kg		91	70 - 132
Methyl tert-butyl ether	40.0	37.80		ug/Kg		94	70 - 130
1,3-Dichlorobenzene	40.0	35.81		ug/Kg		90	70 - 130
Methylene Chloride	40.0	35.93		ug/Kg		90	61 - 150
Acrylonitrile	400	383.7		ug/Kg		96	66 - 137
cis-1,2-Dichloroethene	40.0	37.19		ug/Kg		93	70 - 130
Carbon tetrachloride	40.0	32.72		ug/Kg		82	70 - 136
Benzene	40.0	37.15		ug/Kg		93	70 - 131
1,2-Dichloroethane	40.0	33.42		ug/Kg		84	70 - 130
Trichloroethene	40.0	34.77		ug/Kg		87	70 - 130
1,1,1-Trichloroethane	40.0	34.21		ug/Kg		86	70 - 132
1,1-Dichloroethane	40.0	35.87		ug/Kg		90	70 - 130
1,2-Dichloropropane	40.0	37.59		ug/Kg		94	70 - 130
1,4-Dioxane	800	826.6		ug/Kg		103	10 - 150
Chloroform	40.0	34.91		ug/Kg		87	70 - 130
Bromodichloromethane	40.0	36.92		ug/Kg		92	70 - 130
1,1-Dichloropropene	40.0	37.35		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	34.37		ug/Kg		86	70 - 130
Toluene	40.0	33.36		ug/Kg		83	70 - 130
trans-1,3-Dichloropropene	40.0	36.54		ug/Kg		91	70 - 131
1,1,2-Trichloroethane	40.0	35.23		ug/Kg		88	70 - 130
Tetrachloroethene	40.0	29.92		ug/Kg		75	70 - 130
1,3-Dichloropropene, Total	80.0	70.91		ug/Kg		89	
1,2-Dibromoethane	40.0	34.45		ug/Kg		86	70 - 130
Monochlorobenzene	40.0	32.86		ug/Kg		82	70 - 130
Ethylbenzene	40.0	36.53		ug/Kg		91	70 - 130
Xylenes, Total	80.0	76.14		ug/Kg		95	70 - 130
Styrene	40.0	37.34		ug/Kg		93	70 - 130
Tribromomethane	40.0	30.61		ug/Kg		77	59 - 137
1,1,2,2-Tetrachloroethane	40.0	40.95		ug/Kg		102	70 - 130
1,4-Dichlorobenzene	40.0	34.59		ug/Kg		86	70 - 130
1,2-Dichlorobenzene	40.0	36.35		ug/Kg		91	70 - 130
1,2,4-Trichlorobenzene	40.0	37.86		ug/Kg		95	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*97*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 560-192708/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192708

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			40.0	33.29		ug/Kg					
Chloromethane			40.0	28.33		ug/Kg					
Vinyl chloride			40.0	32.66		ug/Kg					
Bromomethane			40.0	31.81		ug/Kg					
Trichlorofluoromethane			40.0	32.59		ug/Kg					
Acrolein			395	377.9		ug/Kg					
1,1-Dichloroethene			40.0	34.97		ug/Kg					
trans-1,2-Dichloroethene			40.0	35.70		ug/Kg					
Methyl tert-butyl ether			40.0	37.35		ug/Kg					
1,3-Dichlorobenzene			40.0	34.31		ug/Kg					
Methylene Chloride			40.0	34.74		ug/Kg					
Acrylonitrile			400	369.0		ug/Kg					
cis-1,2-Dichloroethene			40.0	36.26		ug/Kg					
Carbon tetrachloride			40.0	32.07		ug/Kg					
Benzene			40.0	36.36		ug/Kg					
1,2-Dichloroethane			40.0	32.07		ug/Kg					
Trichloroethene			40.0	33.88		ug/Kg					
1,1,1-Trichloroethane			40.0	32.99		ug/Kg					
1,1-Dichloroethane			40.0	35.18		ug/Kg					
1,2-Dichloropropane			40.0	36.68		ug/Kg					
1,4-Dioxane			800	795.1		ug/Kg					
Chloroform			40.0	34.02		ug/Kg					
Bromodichloromethane			40.0	35.77		ug/Kg					
1,1-Dichloropropene			40.0	36.69		ug/Kg					
cis-1,3-Dichloropropene			40.0	33.41		ug/Kg					
Toluene			40.0	32.50		ug/Kg					
trans-1,3-Dichloropropene			40.0	35.22		ug/Kg					
1,1,2-Trichloroethane			40.0	33.98		ug/Kg					
Tetrachloroethene			40.0	28.74		ug/Kg					
1,3-Dichloropropene, Total			80.0	68.63		ug/Kg					
1,2-Dibromoethane			40.0	33.01		ug/Kg					
Monochlorobenzene			40.0	31.64		ug/Kg					
Ethylbenzene			40.0	35.09		ug/Kg					
Xylenes, Total			80.0	73.57		ug/Kg					
Styrene			40.0	36.06		ug/Kg					
Tribromomethane			40.0	29.33		ug/Kg					
1,1,2,2-Tetrachloroethane			40.0	38.63		ug/Kg					
1,4-Dichlorobenzene			40.0	33.25		ug/Kg					
1,2-Dichlorobenzene			40.0	34.68		ug/Kg					
1,2,4-Trichlorobenzene			40.0	35.73		ug/Kg					

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)			
Toluene-d8 (Surr)			
Dibromofluoromethane (Surr)			
4-Bromofluorobenzene (Surr)			

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39864/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

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			02/01/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*		*02/01/22 17:15*	*1*

Lab Sample ID: LCS 860-39864/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.04692		mg/Kg		94	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*

Lab Sample ID: LCSD 860-39864/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.04791		mg/Kg		96	65 - 135	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-565562/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565810 — **Prep Batch: 565562**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/04/22 15:17	02/08/22 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*80*		*30 - 164*	*02/04/22 15:17*	*02/08/22 14:41*	*1*

Lab Sample ID: LCS 400-565562/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565810 — **Prep Batch: 565562**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	272.6		ug/Kg		82	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*95*	*	*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-39790/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Diesel Range Organics (Over C10-C28) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Oil Range Organics (Over C28-C36) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane - RA	*105*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*
o-Terphenyl (Surr) - RA	*97*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*

Lab Sample ID: LCS 860-39790/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10 - RA	994	1024		mg/Kg		103	70 - 135
Diesel Range Organics (Over C10-C28) - RA	996	974.9		mg/Kg		98	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane - RA	*107*		*65 - 130*
o-Terphenyl (Surr) - RA	*100*		*65 - 130*

Lab Sample ID: LCSD 860-39790/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10 - RA	994	1028		mg/Kg		103	70 - 135	0	35
Diesel Range Organics (Over C10-C28) - RA	996	1002		mg/Kg		101	70 - 135	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane - RA	*110*		*65 - 130*
o-Terphenyl (Surr) - RA	*103*		*65 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/26/22 08:34	01/26/22 14:18	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/26/22 08:34	01/26/22 14:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*35 - 135*	*01/26/22 08:34*	*01/26/22 14:18*	*1*
DCB Decachlorobiphenyl (Surr)	*115*		*25 - 143*	*01/26/22 08:34*	*01/26/22 14:18*	*1*

Lab Sample ID: LCS 860-38890/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	16.7	19.14		ug/Kg		115	13 - 192
Aldrin	16.7	18.43		ug/Kg		111	30 - 152
Hexachlorocyclohexane, alpha-	16.7	17.42		ug/Kg		105	29 - 160
Hexachlorocyclohexane, beta-	16.7	19.15		ug/Kg		115	30 - 155
Hexachlorocyclohexane, delta-	16.7	17.69		ug/Kg		106	20 - 161
Dieldrin	16.7	19.24		ug/Kg		115	33 - 153
Endosulfan I	16.7	18.57		ug/Kg		111	30 - 151
Endosulfan II	16.7	17.20		ug/Kg		103	27 - 153
Endosulfan sulfate	16.7	18.75		ug/Kg		112	15 - 170
Endrin	16.7	20.31		ug/Kg		122	25 - 162
Endrin aldehyde	16.7	18.29		ug/Kg		110	49 - 117
Hexachlorocyclohexane, gamma-	16.7	18.31		ug/Kg		110	30 - 158
Heptachlor	16.7	18.86		ug/Kg		113	29 - 163
Heptachlor epoxide	16.7	18.26		ug/Kg		110	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

Lab Sample ID: LCSD 860-38890/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT	16.7	18.62		ug/Kg		112	13 - 192	3	25

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QC Sample Results

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

Job ID: 860-19754-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-38890/3-A
Matrix: Solid
Analysis Batch: 38895

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38890

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	16.7	18.12		ug/Kg		109	30 - 152	2	25
Hexachlorocyclohexane, alpha-	16.7	17.11		ug/Kg		103	29 - 160	2	25
Hexachlorocyclohexane, beta-	16.7	18.75		ug/Kg		113	30 - 155	2	25
Hexachlorocyclohexane, delta-	16.7	17.26		ug/Kg		104	20 - 161	2	25
Dieldrin	16.7	18.81		ug/Kg		113	33 - 153	2	25
Endosulfan I	16.7	18.15		ug/Kg		109	30 - 151	2	25
Endosulfan II	16.7	16.84		ug/Kg		101	27 - 153	2	25
Endosulfan sulfate	16.7	18.21		ug/Kg		109	15 - 170	3	25
Endrin	16.7	19.79		ug/Kg		119	25 - 162	3	25
Endrin aldehyde	16.7	17.90		ug/Kg		107	49 - 117	2	25
Hexachlorocyclohexane, gamma-	16.7	17.85		ug/Kg		107	30 - 158	3	25
Heptachlor	16.7	18.53		ug/Kg		111	29 - 163	2	25
Heptachlor epoxide	16.7	17.76		ug/Kg		107	30 - 150	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-38890/1-A
Matrix: Solid
Analysis Batch: 38913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38890

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*35 - 140*	*01/26/22 08:34*	*01/26/22 14:24*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 142*	*01/26/22 08:34*	*01/26/22 14:24*	*1*

Lab Sample ID: LCS 860-38890/4-A
Matrix: Solid
Analysis Batch: 38913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38890

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	0.167	0.1416		mg/Kg		85	27 - 121
Aroclor 1260	0.167	0.1484		mg/Kg		89	27 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*35 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-38890/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	86		37 - 142

Lab Sample ID: LCSD 860-38890/5-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1363		mg/Kg		82	27 - 121	4	20
Aroclor 1260			0.167	0.1452		mg/Kg		87	27 - 139	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	67		35 - 140
DCB Decachlorobiphenyl (Surr)	87		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565272/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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		02/05/22 11:25	02/10/22 06:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 06:07	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/05/22 11:25	02/10/22 06:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	02/05/22 11:25	02/10/22 06:07	1

Lab Sample ID: LCS 280-565272/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.9312		mg/Kg		93	80 - 120		
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9739		mg/Kg		97	80 - 124		
2,4,6-Trinitrotoluene			1.00	0.9953		mg/Kg		100	80 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	99		83 - 122

QC Sample Results

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

Job ID: 860-19754-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-39027/1-A
Matrix: Solid
Analysis Batch: 38814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/26/22 18:46	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/26/22 18:46	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/26/22 18:46	1

Lab Sample ID: MB 860-39027/28-A
Matrix: Solid
Analysis Batch: 38814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/26/22 23:31	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/26/22 23:31	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/26/22 23:31	1

Lab Sample ID: MB 860-39027/57-A
Matrix: Solid
Analysis Batch: 38814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrite as N	0.08762	J	1.00	0.0500	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrate Nitrite as N	0.1812	J	1.00	0.00500	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/27/22 06:39	1

Lab Sample ID: LCS 860-39027/58-A
Matrix: Solid
Analysis Batch: 38814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	103.2		mg/Kg		103	80 - 120
Nitrate as N	100	96.19		mg/Kg		96	80 - 120
Fluoride	100	100.1		mg/Kg		100	80 - 120
Nitrite as N	50.0	48.60		mg/Kg		97	80 - 120
Sulfate	100	95.71		mg/Kg		96	80 - 120

Lab Sample ID: LCSD 860-39027/3-A
Matrix: Solid
Analysis Batch: 38814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39027

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	103.9		mg/Kg		104	80 - 120	0	20
Fluoride	100	101.5		mg/Kg		101	80 - 120	0	20
Sulfate	100	97.19		mg/Kg		97	80 - 120	0	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-39027/59-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 38814 — **Prep Batch: 39027**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	99.30		mg/Kg		99	80 - 120	4	20
Nitrate as N	100	93.62		mg/Kg		94	80 - 120	3	20
Fluoride	100	97.49		mg/Kg		97	80 - 120	3	20
Nitrite as N	50.0	47.43		mg/Kg		95	80 - 120	2	20
Sulfate	100	93.07		mg/Kg		93	80 - 120	3	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564802

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.04711	J	ug/L		94	70 - 130

Lab Sample ID: MB 280-565161/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565540 — **Prep Batch: 565161**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:01	1

Lab Sample ID: LCS 280-565161/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565540 — **Prep Batch: 565161**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5047		ug/Kg		101	80 - 120

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 556129

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.500	0.490	U	ug/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4417	J	ug/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		95	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

QC Sample Results

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

Job ID: 860-19754-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 280-565681/1-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565681

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/10/22 11:04	02/16/22 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/10/22 11:04*	*02/16/22 11:21*	*1*
13C8 PFOS	*107*		*70 - 130*	*02/10/22 11:04*	*02/16/22 11:21*	*1*

Lab Sample ID: LCS 280-565681/2-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	20.31		ug/Kg		102	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	18.45		ug/Kg		101	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.74		ug/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*108*		*70 - 130*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-39983/1-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/02/22 12:56	02/04/22 12:37	1

QC Sample Results

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

Job ID: 860-19754-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-39983/2-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	5.00	4.950		mg/Kg		99	80 - 120
Arsenic	10.0	10.41		mg/Kg		104	80 - 120
Barium	10.0	9.918		mg/Kg		99	80 - 120
Beryllium	10.0	10.08		mg/Kg		101	80 - 120
Cadmium	10.0	10.42		mg/Kg		104	80 - 120
Chromium	10.0	10.57		mg/Kg		106	80 - 120
Copper	10.0	10.37		mg/Kg		104	80 - 120
Iron	50.0	52.35		mg/Kg		105	80 - 120
Manganese	10.0	10.93		mg/Kg		109	80 - 120
Lead	10.0	9.971		mg/Kg		100	80 - 120
Antimony	10.0	9.820		mg/Kg		98	80 - 120
Selenium	10.0	10.46		mg/Kg		105	80 - 120
Thallium	10.0	9.997		mg/Kg		100	80 - 120
Uranium	2.50	2.407		mg/Kg		96	80 - 120
Zinc	10.0	11.99		mg/Kg		120	80 - 120

Lab Sample ID: LCSD 860-39983/3-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39983

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.90	4.888		mg/Kg		100	80 - 120	1	20
Arsenic	9.80	10.36		mg/Kg		106	80 - 120	0	20
Barium	9.80	9.905		mg/Kg		101	80 - 120	0	20
Beryllium	9.80	10.11		mg/Kg		103	80 - 120	0	20
Cadmium	9.80	10.29		mg/Kg		105	80 - 120	1	20
Chromium	9.80	10.30		mg/Kg		105	80 - 120	3	20
Copper	9.80	10.18		mg/Kg		104	80 - 120	2	20
Iron	49.0	51.04		mg/Kg		104	80 - 120	3	20
Manganese	9.80	10.60		mg/Kg		108	80 - 120	3	20
Lead	9.80	9.940		mg/Kg		101	80 - 120	0	20
Antimony	9.80	9.828		mg/Kg		100	80 - 120	0	20
Selenium	9.80	10.36		mg/Kg		106	80 - 120	1	20
Thallium	9.80	9.988		mg/Kg		102	80 - 120	0	20
Uranium	2.45	2.417		mg/Kg		99	80 - 120	0	20
Zinc	9.80	11.39		mg/Kg		116	80 - 120	5	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39207/10-A
Matrix: Solid
Analysis Batch: 39396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00356	U	0.0185	0.00356	mg/Kg		01/28/22 08:00	01/28/22 12:43	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 860-39207/11-A
Matrix: Solid
Analysis Batch: 39396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39207

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.192	0.2007		mg/Kg		104	80 - 120		

Lab Sample ID: LCSD 860-39207/12-A
Matrix: Solid
Analysis Batch: 39396

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39207

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.192	0.1950		mg/Kg		101	80 - 120	3	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40711/16-A
Matrix: Solid
Analysis Batch: 40738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40711

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/08/22 15:02	02/08/22 16:20	1

Lab Sample ID: MB 860-40711/3-A
Matrix: Solid
Analysis Batch: 40738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40711

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/08/22 15:02	02/08/22 15:59	1

Lab Sample ID: LCS 860-40711/4-A
Matrix: Solid
Analysis Batch: 40738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40711

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			100	101.9		ug/Kg		102	90 - 110		

Lab Sample ID: LLCS 860-40711/18-A
Matrix: Solid
Analysis Batch: 40738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40711

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			50.0	52.87		ug/Kg		106	90 - 110		

Lab Sample ID: 860-19754-1 MS
Matrix: Solid
Analysis Batch: 40738

Client Sample ID: Cell18-Square 134-S-3-4-220125
Prep Type: Total/NA
Prep Batch: 40711

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	35.8	J	2440	1410	N1	ug/Kg		56	90 - 110		

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: 860-19754-1 MSD **Client Sample ID: Cell18-Square 134-S-3-4-220125**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40738 **Prep Batch: 40711**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	35.8	J	2450	1392	N1	ug/Kg		55	90 - 110	1	20

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-42223/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 42401 **Prep Batch: 42223**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 12:48	1

Lab Sample ID: LCS 860-42223/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 42401 **Prep Batch: 42223**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	1.00	0.9730		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 860-42223/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 42401 **Prep Batch: 42223**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	1.00	0.9910		mg/Kg		99	90 - 110	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193206/1 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/15/22 15:10	1

Lab Sample ID: LCS 560-193206/2 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	2250	2124		mg/L		94	90 - 110

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	5035	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	5035	

Analysis Batch: 39864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8260D SIM	39768
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8260D SIM	39768
MB 860-39864/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-39864/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-39864/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8260B	
MB 560-192640/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192640/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192640/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 192708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8260B	
MB 560-192708/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192708/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192708/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	3550C	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	3550C	

Analysis Batch: 39315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8270D	39007
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8270D	39007

Prep Batch: 565562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	3546	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	3546	
MB 400-565562/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 565810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8270D	565562
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8270D	565562
MB 400-565562/1-A	Method Blank	Total/NA	Solid	8270D	565562
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	8270D	565562

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Prep Batch: 38890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	3550C	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	3550C	
MB 860-38890/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 38895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8081B	38890
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	8081B	38890
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	38890

Analysis Batch: 38913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8082A	38890
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	8082A	38890
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	38890

Analysis Batch: 39187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8082A	38890
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8082A	38890

Analysis Batch: 39319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8081B	38890
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8081B	38890

Analysis Batch: 39733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8015B NM	39790

Prep Batch: 39790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1 - RA	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8015NM Prep	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8015NM Prep	
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1 - RA	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8015B NM	39790
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015B NM	39790
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015B NM	39790
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39790

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Analysis Batch: 38814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	9056A	39027
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	9056A	39027
MB 860-39027/1-A	Method Blank	Total/NA	Solid	9056A	39027
MB 860-39027/28-A	Method Blank	Total/NA	Solid	9056A	39027
MB 860-39027/57-A	Method Blank	Total/NA	Solid	9056A	39027
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	9056A	39027
LCSD 860-39027/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027

Analysis Batch: 38815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	9056A	39027
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	9056A	39027
MB 860-39027/57-A	Method Blank	Total/NA	Solid	9056A	39027
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	9056A	39027
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027

Prep Batch: 39027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	300_Prep	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	300_Prep	
MB 860-39027/1-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-39027/28-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-39027/57-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-39027/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Drying Batch: 564725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	Prep/Air Dry	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8330B	564725
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8330B	564725
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 565637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8330B	565272
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8330B	565272
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	565272
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	565272

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	6860	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	6860	
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	6860	565161
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	6860	565161
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	565161
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	565161

Prep Batch: 565681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	PFC leach	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	PFC leach	
MB 280-565681/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 566232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	DV-LC-0012	565681
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	DV-LC-0012	565681
MB 280-565681/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565681
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565681

Metals

Prep Batch: 39207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	7471A	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	7471A	
MB 860-39207/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39207/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39207/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

Analysis Batch: 39396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	7471A	39207
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	7471A	39207
MB 860-39207/10-A	Method Blank	Total/NA	Solid	7471A	39207
LCS 860-39207/11-A	Lab Control Sample	Total/NA	Solid	7471A	39207
LCSD 860-39207/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39207

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Prep Batch: 39983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	3051A	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	3051A	
MB 860-39983/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-39983/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-39983/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 40322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	6020A	39983
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	6020A	39983
MB 860-39983/1-A	Method Blank	Total/NA	Solid	6020A	39983
LCS 860-39983/2-A	Lab Control Sample	Total/NA	Solid	6020A	39983
LCSD 860-39983/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	39983

General Chemistry

Analysis Batch: 39359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	Moisture - 2540	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	Moisture - 2540	
MB 860-39359/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Leach Batch: 40687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Soluble	Solid	DI Leach	
860-19754-2	Cell18-Square 23-S-3-4-220125	Soluble	Solid	DI Leach	

Prep Batch: 40711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	9012A	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	9012A	
MB 860-40711/16-A	Method Blank	Total/NA	Solid	9012A	
MB 860-40711/3-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40711/4-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40711/18-A	Lab Control Sample	Total/NA	Solid	9012A	
860-19754-1 MS	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	9012A	
860-19754-1 MSD	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	9012A	

Analysis Batch: 40717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Soluble	Solid	9045D	40687
860-19754-2	Cell18-Square 23-S-3-4-220125	Soluble	Solid	9045D	40687

Analysis Batch: 40738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	9012A	40711
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	9012A	40711
MB 860-40711/16-A	Method Blank	Total/NA	Solid	9012A	40711
MB 860-40711/3-A	Method Blank	Total/NA	Solid	9012A	40711
LCS 860-40711/4-A	Lab Control Sample	Total/NA	Solid	9012A	40711
LLCS 860-40711/18-A	Lab Control Sample	Total/NA	Solid	9012A	40711

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry (Continued)

Analysis Batch: 40738 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1 MS	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	9012A	40711
860-19754-1 MSD	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	9012A	40711

Prep Batch: 42223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	Distill/Phenol	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	Distill/Phenol	
MB 860-42223/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 42401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	9066	42223
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	9066	42223
MB 860-42223/1-A	Method Blank	Total/NA	Solid	9066	42223
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	9066	42223
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	42223

Leach Batch: 193204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	7 Day Leach	Solid	335.521	
860-19754-2	Cell18-Square 23-S-3-4-220125	7 Day Leach	Solid	335.521	

Analysis Batch: 193206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	7 Day Leach	Solid	SM 2540C	193204
860-19754-2	Cell18-Square 23-S-3-4-220125	7 Day Leach	Solid	SM 2540C	193204
MB 560-193206/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193206/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	Dry and Grind	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	Dry and Grind	

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	Fill_Geo-21	549041
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	Fill_Geo-21	549041

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 134-S-3-4-220125
Lab Sample ID: 860-19754-1
Date Collected: 01/25/22 10:02
Matrix: Solid
Date Received: 01/26/22 11:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.5 g	5 mL	192708	01/31/22 17:57	RJD	XEN CC
Total/NA	Prep	5035			4.95 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 20:10	EM	XEN STF
Total/NA	Prep	3550C			29.94 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39315	01/28/22 19:29	LPL	XEN STF
Total/NA	Prep	3546			15.48 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 19:49	PP1	TAL PEN
Total/NA	Prep	8015NM Prep	RA		9.99 g	10 mL	39790	02/01/22 12:49	SAR	XEN STF
Total/NA	Analysis	8015B NM	RA	1			39915	02/02/22 20:39	T1S	XEN STF
Total/NA	Prep	3550C			30.03 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			39319	01/28/22 16:31	WP	XEN STF
Total/NA	Prep	3550C			30.03 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			39187	01/27/22 20:59	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.13 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 11:51	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.90 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38814	01/27/22 12:37	ANP	XEN STF
Total/NA	Prep	300_Prep			4.90 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38815	01/27/22 12:37	ANP	XEN STF
Total/NA	Prep	6860			10.6 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:24	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.04 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 12:58	AGCM	TAL DEN
Total/NA	Prep	3051A			.55 g	50 mL	39983	02/02/22 12:57	PB	XEN STF
Total/NA	Analysis	6020A		10			40322	02/04/22 13:36	DCL	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	39207	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 13:01	SHZ	XEN STF
Total/NA	Prep	9012A			0.4954 g	6 mL	40711	02/08/22 15:02	CM1	XEN STF
Total/NA	Analysis	9012A		1			40738	02/08/22 16:24	CM1	XEN STF
Soluble	Leach	DI Leach			20.03 g	20 mL	40687	02/08/22 12:55	TL	XEN STF
Soluble	Analysis	9045D		1	20.03 g	20 mL	40717	02/08/22 15:18	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:33	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			302.4000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552702	02/28/22 10:59	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 23-S-3-4-220125 Lab Sample ID: 860-19754-2

Date Collected: 01/25/22 09:35 **Matrix: Solid**
Date Received: 01/26/22 11:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.92 g	5 mL	192640	01/27/22 22:20	RJD	XEN CC
Total/NA	Prep	5035			5.03 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 20:32	EM	XEN STF
Total/NA	Prep	3550C			29.98 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39315	01/28/22 19:49	LPL	XEN STF
Total/NA	Prep	3546			15.36 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 20:15	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.15 g	10 mL	39790	02/01/22 12:49	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39733	02/01/22 22:08	T1S	XEN STF
Total/NA	Prep	3550C			29.98 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			39319	01/28/22 16:45	WP	XEN STF
Total/NA	Prep	3550C			29.98 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			39187	01/27/22 21:08	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.38 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 12:14	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.08 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38814	01/27/22 12:49	ANP	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38815	01/27/22 12:49	ANP	XEN STF
Total/NA	Prep	6860			10.42 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:29	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.48 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 13:06	AGCM	TAL DEN
Total/NA	Prep	3051A			.55 g	50 mL	39983	02/02/22 12:57	PB	XEN STF
Total/NA	Analysis	6020A		10			40322	02/04/22 13:39	DCL	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	39207	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 13:02	SHZ	XEN STF
Total/NA	Prep	9012A			0.4990 g	6 mL	40711	02/08/22 15:02	CM1	XEN STF
Total/NA	Analysis	9012A		1			40738	02/08/22 16:28	CM1	XEN STF
Soluble	Leach	DI Leach			20.05 g	20 mL	40687	02/08/22 12:55	TL	XEN STF
Soluble	Analysis	9045D		1	20.05 g	20 mL	40717	02/08/22 15:18	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:35	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			283.6000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552700	02/28/22 11:00	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

Laboratory: Eurofins St. Louis

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19754-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19754-1	Cell18-Square 134-S-3-4-220125	Solid	01/25/22 10:02	01/26/22 11:22
860-19754-2	Cell18-Square 23-S-3-4-220125	Solid	01/25/22 09:35	01/26/22 11:22

Page 470 of 959

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Cory Rodriguez	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-599-5594	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1-1
Company: ARCADIS U.S. Inc.				Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Standard			
State, Zip: CO, 80129-2377	PO #:			
Phone: 303-710-7537(Tel)	WO #:			
Email: Alison.Schaffer@arcadis.com	Project #: 86002103			
Project Name: Chevron Jal Land Farm Soils	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B- Volatiles	8270C- Semivolatiles/ 8081 Pesticides/ 8082 PCB	8080 Perchlorate-Ddenver- soil jar 4 oz	8330B Denver soil jar 4 oz	PFC Denver- plastic 16 oz jar	8270D_AgChem -Pensacola soil jar 4 oz	2540C_Calcd Local Method/ Moisture/ pH 9045	8015B_GRO	8015_DRO/ORO	GA-01_R_ra- Rad 226/228- St Louis- 2 plastic jars 16	9056-Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate; Fluoride	6020/7471- St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
Cell 18-Square 134-S-3-4-220125	1-25-22	1002	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
Cell 18-Square 23-S-3-4-220125	1-25-22	0935	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

860-19754 Chain of Custody

TB

Temp: 5.1 IR ID: HOU-323
C/F: +0.2
Corrected Temp: 5.3

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[redacted]	1/29/22 1200	Arcadis	[redacted]		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/30/22 1127	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 01/16/2019

Received by OCD: 9/12/2022 9:41:21 AM

Released to Imaging: 10/28/2022 10:00:56 AM

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9688.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19754-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/14/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell18-Square 134-5-3-4-220125 (860-19754-1)	1/25/22	10:02 Central		Solid			X	1	
Cell18-Square 23-5-3-4-220125 (860-19754-2)	1/25/22	09:35 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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Linda FEDEX	1/26/22		FEDEX		
2	FEDEX					
3				Autumn R. Johnson	JAN 28 2022 1120	ETAST

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

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9687.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19754-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/11/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell18-Square 134-5-3-4-220125 (860-19754-1)	1/25/22	10:02 Central		Solid			X	X	X	2	
Cell18-Square 23-5-3-4-220125 (860-19754-2)	1/25/22	09:35 Central		Solid			X	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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				1/28/22 1005	ETAGEN
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: 1.4 IR13 CF-0.2

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

s Houston
eenbriar Dr
ford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9686.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-19754-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 2/14/2022			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell18-Square 134-5-3-4-220125 (860-19754-1)	1/25/22	10:02 Central		Solid			X	1	
Cell18-Square 23-5-3-4-220125 (860-19754-2)	1/25/22	09:35 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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1-27-22/1924	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0-0°C CF8

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9685.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19754-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/11/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B_Solid (MOD) mod	2540C/TX_7Day_T	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell18-Square 134-5-3-4-220125 (860-19754-1)	1/25/22	10:02 Central		Solid			X	X	1	
Cell18-Square 23-5-3-4-220125 (860-19754-2)	1/25/22	09:35 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Linda	1/26/22		Caitlyn Forester	01/27/2022 1130	EX
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.9 CG 2.8 IR-10

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19754-1

Login Number: 19754 **List Source: Eurofins Houston**
List Number: 1
Creator: Torrez, Lisandra

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	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19754-1

Login Number: 19754 **List Source: Eurofins Houston**
List Number: 2
Creator: Torrez, Lisandra

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19754-1

Login Number: 19754 **List Source: Eurofins Corpus Christi**
List Number: 3 **List Creation: 01/27/22 01:39 PM**
Creator: Forrester, Caitlyn D

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.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19754-1

Login Number: 19754 **List Source: Eurofins Denver**
List Number: 5 **List Creation: 01/27/22 04:37 PM**
Creator: Rystrom, Joshua R

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	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	COC not relinquished.
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").	True	
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: 860-19754-1

Login Number: 19754 **List Source: Eurofins Pensacola**
List Number: 4 **List Creation: 01/27/22 04:55 PM**
Creator: Whitley, Adrian

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	0.0°C IR8
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: 860-19754-1

Login Number: 19754 **List Source: Eurofins St. Louis**
List Number: 6 **List Creation: 02/01/22 12:03 PM**
Creator: Johnson, Autumn R

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	
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.	N/A	

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ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19761-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

SKudchadkar

Authorized for release by:
2/28/2022 6:02:11 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

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

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

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

Laboratory Job ID: 860-19761-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N2	RPD of the MS and MSD exceeds the 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 Semi VOA

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

HPLC/IC

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.

LCMS

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding 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.

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	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.
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.
¤	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)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19761-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19761-1

Receipt
The samples were received on 1/26/2022 11:22 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 3.3°C

GC/MS VOA
Method 8260B: The following analyte recovered outside control limits for the LCS associated with analytical batch 560-192640: Tetrachloroethene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been 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_AgChem: Internal standard (ISTD) response for Prometon for the following samples in analytical batch 400-565810 was outside acceptance criteria: Cell19-Square 193-S-3-4-220125 (860-19761-1), Cell19-Square 6-S-3-4-220125 (860-19761-2), (LCS 400-565562/2-A), (MB 400-565562/1-A), (860-19619-G-1-C), (860-19619-G-1-A MS) and (860-19619-G-1-B MSD). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

Method 8270D: The surrogate recovery for the blank associated with preparation batch 860-39056 and analytical batch 860-39132 was outside the upper control limits.

Method 8270D: The matrix spike duplicate (MSD) precision for preparation batch 860-39056 and analytical batch 860-39132 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

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

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

PCBs
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_48H: The method blank for preparation batch 860-39027 and analytical batch 860-38815 contained nitrite above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction <and_or> re-analysis of samples was not performed.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell19-Square 193-S-3-4-220125 (860-19761-1) and Cell19-Square 6-S-3-4-220125 (860-19761-2) in preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell19-Square 193-S-3-4-220125 (860-19761-1) and Cell19-Square 6-S-3-4-220125 (860-19761-2). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19761-1 (Continued)

Laboratory: Eurofins Houston (Continued)

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell19-Square 193-S-3-4-220125 (860-19761-1) and Cell19-Square 6-S-3-4-220125 (860-19761-2) in preparation batch 280-564725 and 280-565272 by 8330B_Sonc_10g for 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

Method PFC: In preparation batch 280-565681, the following samples were re-prepared outside of preparation holding time due to the samples in the original batch being extracted but not filtered and sent on to the instrument analyst: Cell19-Square 193-S-3-4-220125 (860-19761-1) and Cell19-Square 6-S-3-4-220125 (860-19761-2). Method PFC_Leach/PFC.

Method PFC: During pH adjustment, the following samples required 2 mL of acid to reach the desired pH: Cell19-Square 193-S-3-4-220125 (860-19761-1). Most samples take less than 1 mL to reach the desired range preparation batch 280-565681. Method:PFC

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

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 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 AnalyteTh-234 Pa-234Th-234 U-238Pb-210 Po-210 Pb-210 Bi-210Cs-137 Ba-137mPb-212 Po-216Xe-131m Xe-131Sb-125 Te-125mAg-108m Ag-108Rh-106 Ru-106Pb-212 Th-228Pb-212 Ra-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. Cell19-Square 193-S-3-4-220125 (860-19761-1), Cell19-Square 6-S-3-4-220125 (860-19761-2), (LCS 160-549553/2-A), (MB 160-549553/1-A), (860-19990-D-2-B) and (860-19990-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 193-S-3-4-220125 Lab Sample ID: 860-19761-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10.4		10.1	3.56	mg/Kg	1		9056A	Total/NA
Nitrate as N	12.4		1.01	0.109	mg/Kg	1		9056A	Total/NA
Fluoride	4.64	J	5.03	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.0846	J b	1.01	0.0503	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	12.4	b	1.01	0.00503	mg/Kg	1		9056A	Total/NA
Sulfate	174		10.1	4.35	mg/Kg	1		9056A	Total/NA
Arsenic	3.90		3.51	0.541	mg/Kg	10		6020A	Total/NA
Barium	287		3.51	0.304	mg/Kg	10		6020A	Total/NA
Chromium	1.72	J	3.51	0.238	mg/Kg	10		6020A	Total/NA
Copper	1.13	J	3.51	0.229	mg/Kg	10		6020A	Total/NA
Iron	1350		17.5	2.06	mg/Kg	10		6020A	Total/NA
Manganese	13.1		1.75	0.223	mg/Kg	10		6020A	Total/NA
Lead	0.829	J	1.75	0.170	mg/Kg	10		6020A	Total/NA
Antimony	0.118	J	1.75	0.104	mg/Kg	10		6020A	Total/NA
Uranium	0.524	J	0.877	0.0524	mg/Kg	10		6020A	Total/NA
Zinc	6.92		3.51	0.388	mg/Kg	10		6020A	Total/NA
Mercury	0.00755	J	0.0196	0.00377	mg/Kg	1		7471A	Total/NA
pH	8.6	HF			SU	1		9045D	Soluble
Total Dissolved Solids	169		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell19-Square 6-S-3-4-220125 Lab Sample ID: 860-19761-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16.9		9.84	3.48	mg/Kg	1		9056A	Total/NA
Nitrate as N	5.90		0.984	0.106	mg/Kg	1		9056A	Total/NA
Fluoride	6.30		4.92	0.984	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.116	J b	0.984	0.0492	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	6.01	b	0.984	0.00492	mg/Kg	1		9056A	Total/NA
Sulfate	126		9.84	4.25	mg/Kg	1		9056A	Total/NA
Perchlorate	0.321	J	0.457	0.0754	ug/Kg	1		6860	Total/NA
Arsenic	3.43	J	3.85	0.593	mg/Kg	10		6020A	Total/NA
Barium	331		3.85	0.334	mg/Kg	10		6020A	Total/NA
Beryllium	0.190	J	1.92	0.178	mg/Kg	10		6020A	Total/NA
Chromium	4.11		3.85	0.261	mg/Kg	10		6020A	Total/NA
Copper	1.55	J	3.85	0.251	mg/Kg	10		6020A	Total/NA
Iron	3490		19.2	2.25	mg/Kg	10		6020A	Total/NA
Manganese	25.6		1.92	0.245	mg/Kg	10		6020A	Total/NA
Lead	1.90	J	1.92	0.186	mg/Kg	10		6020A	Total/NA
Antimony	0.188	J	1.92	0.114	mg/Kg	10		6020A	Total/NA
Uranium	0.538	J	0.962	0.0575	mg/Kg	10		6020A	Total/NA
Zinc	10.2		3.85	0.426	mg/Kg	10		6020A	Total/NA
Mercury	0.0125	J	0.0189	0.00363	mg/Kg	1		7471A	Total/NA
Cyanide, Total	37.0	J	61.5	30.5	ug/Kg	1		9012A	Total/NA
pH	9.0	HF			SU	1		9045D	Soluble
Total Dissolved Solids	178		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 193-S-3-4-220125 **Lab Sample ID: 860-19761-1**
Date Collected: 01/25/22 12:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.613	U	4.20	0.613	ug/Kg			01/27/22 22:45	1
Chloromethane	1.01	U	4.20	1.01	ug/Kg			01/27/22 22:45	1
Vinyl chloride	0.504	U	4.20	0.504	ug/Kg			01/27/22 22:45	1
Bromomethane	0.924	U	4.20	0.924	ug/Kg			01/27/22 22:45	1
Trichlorofluoromethane	0.420	U	4.20	0.420	ug/Kg			01/27/22 22:45	1
Acrolein	7.23	U	42.0	7.23	ug/Kg			01/27/22 22:45	1
1,1-Dichloroethene	0.420	U	4.20	0.420	ug/Kg			01/27/22 22:45	1
trans-1,2-Dichloroethene	0.420	U	4.20	0.420	ug/Kg			01/27/22 22:45	1
Methyl tert-butyl ether	0.513	U	4.20	0.513	ug/Kg			01/27/22 22:45	1
1,3-Dichlorobenzene	0.261	U	4.20	0.261	ug/Kg			01/27/22 22:45	1
Methylene Chloride	4.20	U	21.0	4.20	ug/Kg			01/27/22 22:45	1
Acrylonitrile	3.03	U	42.0	3.03	ug/Kg			01/27/22 22:45	1
cis-1,2-Dichloroethene	0.479	U	4.20	0.479	ug/Kg			01/27/22 22:45	1
Carbon tetrachloride	0.429	U	4.20	0.429	ug/Kg			01/27/22 22:45	1
Benzene	0.529	U	4.20	0.529	ug/Kg			01/27/22 22:45	1
1,2-Dichloroethane	0.437	U	4.20	0.437	ug/Kg			01/27/22 22:45	1
Trichloroethene	0.235	U	4.20	0.235	ug/Kg			01/27/22 22:45	1
1,1,1-Trichloroethane	0.420	U	4.20	0.420	ug/Kg			01/27/22 22:45	1
1,1-Dichloroethane	0.496	U	4.20	0.496	ug/Kg			01/27/22 22:45	1
1,2-Dichloropropane	0.420	U	4.20	0.420	ug/Kg			01/27/22 22:45	1
1,4-Dioxane	16.0	U	84.0	16.0	ug/Kg			01/27/22 22:45	1
Chloroform	0.731	U	4.20	0.731	ug/Kg			01/27/22 22:45	1
Bromodichloromethane	0.168	U	4.20	0.168	ug/Kg			01/27/22 22:45	1
1,1-Dichloropropene	0.437	U	4.20	0.437	ug/Kg			01/27/22 22:45	1
cis-1,3-Dichloropropene	0.378	U	4.20	0.378	ug/Kg			01/27/22 22:45	1
Toluene	0.756	U	4.20	0.756	ug/Kg			01/27/22 22:45	1
trans-1,3-Dichloropropene	0.437	U	4.20	0.437	ug/Kg			01/27/22 22:45	1
1,1,2-Trichloroethane	0.420	U	4.20	0.420	ug/Kg			01/27/22 22:45	1
Tetrachloroethene	0.622	U *	4.20	0.622	ug/Kg			01/27/22 22:45	1
1,3-Dichloropropene, Total	0.437	U	4.20	0.437	ug/Kg			01/27/22 22:45	1
1,2-Dibromoethane	0.252	U	4.20	0.252	ug/Kg			01/27/22 22:45	1
Monochlorobenzene	0.252	U	4.20	0.252	ug/Kg			01/27/22 22:45	1
Ethylbenzene	0.378	U	4.20	0.378	ug/Kg			01/27/22 22:45	1
Xylenes, Total	0.420	U	8.40	0.420	ug/Kg			01/27/22 22:45	1
Styrene	0.252	U	4.20	0.252	ug/Kg			01/27/22 22:45	1
Tribromomethane	0.429	U	4.20	0.429	ug/Kg			01/27/22 22:45	1
1,1,2,2-Tetrachloroethane	0.319	U	4.20	0.319	ug/Kg			01/27/22 22:45	1
1,4-Dichlorobenzene	0.269	U	4.20	0.269	ug/Kg			01/27/22 22:45	1
1,2-Dichlorobenzene	0.210	U	4.20	0.210	ug/Kg			01/27/22 22:45	1
1,2,4-Trichlorobenzene	0.815	U	4.20	0.815	ug/Kg			01/27/22 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*65 - 152*		*01/27/22 22:45*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/27/22 22:45*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 22:45*	*1*
4-Bromofluorobenzene (Surr)	*112*		*61 - 142*		*01/27/22 22:45*	*1*

Method: 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	0.00502	0.00251	mg/Kg		02/01/22 11:08	02/01/22 20:54	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 193-S-3-4-220125
Lab Sample ID: 860-19761-1
Date Collected: 01/25/22 12:55
Matrix: Solid
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		63 - 144	02/01/22 11:08	02/01/22 20:54	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.7	U	64.6	11.7	ug/Kg		02/04/22 15:17	02/08/22 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	85	*	30 - 164	02/04/22 15:17	02/08/22 20:40	1

Method: 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		01/27/22 07:17	01/27/22 21:19	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/27/22 07:17	01/27/22 21:19	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 193-S-3-4-220125 **Lab Sample ID: 860-19761-1**
Date Collected: 01/25/22 12:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/27/22 07:17	01/27/22 21:19	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/27/22 07:17	01/27/22 21:19	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*	*01/27/22 07:17*	*01/27/22 21:19*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*113*		*30 - 115*	*01/27/22 07:17*	*01/27/22 21:19*	*1*
2-Fluorophenol	*102*		*25 - 121*	*01/27/22 07:17*	*01/27/22 21:19*	*1*
2,4,6-Tribromophenol	*116*		*19 - 122*	*01/27/22 07:17*	*01/27/22 21:19*	*1*
Nitrobenzene-d5	*109*		*23 - 129*	*01/27/22 07:17*	*01/27/22 21:19*	*1*
Phenol-d5 (Surr)	*101*		*24 - 113*	*01/27/22 07:17*	*01/27/22 21:19*	*1*
p-Terphenyl-d14 (Surr)	*131*		*18 - 137*	*01/27/22 07:17*	*01/27/22 21:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	49.9	21.1	mg/Kg		02/01/22 12:48	02/02/22 20:00	1
Diesel Range Organics (Over C10-C28)	21.1	U	49.9	21.1	mg/Kg		02/01/22 12:48	02/02/22 20:00	1
OII Range Organics (Over C28-C36)	21.1	U	49.9	21.1	mg/Kg		02/01/22 12:48	02/02/22 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*65 - 130*	*02/01/22 12:48*	*02/02/22 20:00*	*1*
o-Terphenyl (Surr)	*99*		*65 - 130*	*02/01/22 12:48*	*02/02/22 20:00*	*1*

Method: 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		01/26/22 08:34	01/28/22 16:59	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/26/22 08:34	01/28/22 16:59	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 193-S-3-4-220125 **Lab Sample ID: 860-19761-1**
Date Collected: 01/25/22 12:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Heptachlor epoxide	0.244	U	0.832	0.244	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/26/22 08:34	01/28/22 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*35 - 135*	*01/26/22 08:34*	*01/28/22 16:59*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*25 - 143*	*01/26/22 08:34*	*01/28/22 16:59*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 21:18	1
Aroclor 1221	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 21:18	1
Aroclor 1232	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 21:18	1
Aroclor 1242	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 21:18	1
Aroclor 1248	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 21:18	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 21:18	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*35 - 140*	*01/26/22 08:34*	*01/27/22 21:18*	*1*
DCB Decachlorobiphenyl (Surr)	*115*		*37 - 142*	*01/26/22 08:34*	*01/27/22 21:18*	*1*

Method: 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	0.0221	U	0.0976	0.0221	mg/Kg		02/05/22 11:25	02/10/22 12:37	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0420	U	0.195	0.0420	mg/Kg		02/05/22 11:25	02/10/22 12:37	1
2,4,6-Trinitrotoluene	0.0300	U	0.0976	0.0300	mg/Kg		02/05/22 11:25	02/10/22 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*02/05/22 11:25*	*02/10/22 12:37*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.4**		10.1	3.56	mg/Kg		01/26/22 15:18	01/27/22 13:01	1
Nitrate as N	**12.4**		1.01	0.109	mg/Kg		01/26/22 15:18	01/27/22 13:01	1
Fluoride	**4.64**	**J**	5.03	1.01	mg/Kg		01/26/22 15:18	01/27/22 13:01	1
Nitrite as N	**0.0846**	**J b**	1.01	0.0503	mg/Kg		01/26/22 15:18	01/27/22 13:01	1
Nitrate Nitrite as N	**12.4**	**b**	1.01	0.00503	mg/Kg		01/26/22 15:18	01/27/22 13:01	1
Sulfate	**174**		10.1	4.35	mg/Kg		01/26/22 15:18	01/27/22 13:01	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0774	U	0.470	0.0774	ug/Kg		02/03/22 17:49	02/08/22 19:34	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.216	U H	0.750	0.216	ug/Kg		02/10/22 11:04	02/16/22 13:15	1
Perfluorohexanesulfonic acid (PFHxS)	0.263	U H	0.750	0.263	ug/Kg		02/10/22 11:04	02/16/22 13:15	1
Perfluorooctanesulfonic acid (PFOS)	0.131	U H	0.750	0.131	ug/Kg		02/10/22 11:04	02/16/22 13:15	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 193-S-3-4-220125 Lab Sample ID: 860-19761-1

Date Collected: 01/25/22 12:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	101		57 - 153	02/10/22 11:04	02/16/22 13:15	1
13C8 PFOS	109		70 - 130	02/10/22 11:04	02/16/22 13:15	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.139	U	1.75	0.139	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Arsenic	**3.90**		3.51	0.541	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Barium	**287**		3.51	0.304	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Beryllium	0.162	U	1.75	0.162	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Cadmium	0.102	U	1.75	0.102	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Chromium	**1.72**	**J**	3.51	0.238	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Copper	**1.13**	**J**	3.51	0.229	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Iron	**1350**		17.5	2.06	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Manganese	**13.1**		1.75	0.223	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Lead	**0.829**	**J**	1.75	0.170	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Antimony	**0.118**	**J**	1.75	0.104	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Selenium	0.435	U	1.75	0.435	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Thallium	0.210	U	1.75	0.210	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Uranium	**0.524**	**J**	0.877	0.0524	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Zinc	**6.92**		3.51	0.388	mg/Kg		02/02/22 12:57	02/04/22 13:49	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00755**	**J**	0.0196	0.00377	mg/Kg		01/28/22 08:00	01/28/22 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	30.1	U	60.7	30.1	ug/Kg		02/08/22 15:02	02/08/22 16:33	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:38	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**	**HF**			SU			02/08/22 15:18	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**169**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**1.22**		0.166	0.209	1.00	0.0783	pCi/g	02/07/22 10:12	02/28/22 11:02	1
Radium-228	0.0894	U	0.196	0.196		0.246	pCi/g	02/07/22 10:12	02/28/22 11:02	1
Combined Radium 226 + 228	**1.30**		0.257	0.287		0.246	pCi/g	02/07/22 10:12	02/28/22 11:02	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 6-S-3-4-220125 **Lab Sample ID: 860-19761-2**
Date Collected: 01/25/22 12:23 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.713	U	4.88	0.713	ug/Kg			01/27/22 23:11	1
Chloromethane	1.17	U	4.88	1.17	ug/Kg			01/27/22 23:11	1
Vinyl chloride	0.586	U	4.88	0.586	ug/Kg			01/27/22 23:11	1
Bromomethane	1.07	U	4.88	1.07	ug/Kg			01/27/22 23:11	1
Trichlorofluoromethane	0.488	U	4.88	0.488	ug/Kg			01/27/22 23:11	1
Acrolein	8.40	U	48.8	8.40	ug/Kg			01/27/22 23:11	1
1,1-Dichloroethene	0.488	U	4.88	0.488	ug/Kg			01/27/22 23:11	1
trans-1,2-Dichloroethene	0.488	U	4.88	0.488	ug/Kg			01/27/22 23:11	1
Methyl tert-butyl ether	0.596	U	4.88	0.596	ug/Kg			01/27/22 23:11	1
1,3-Dichlorobenzene	0.303	U	4.88	0.303	ug/Kg			01/27/22 23:11	1
Methylene Chloride	4.88	U	24.4	4.88	ug/Kg			01/27/22 23:11	1
Acrylonitrile	3.52	U	48.8	3.52	ug/Kg			01/27/22 23:11	1
cis-1,2-Dichloroethene	0.557	U	4.88	0.557	ug/Kg			01/27/22 23:11	1
Carbon tetrachloride	0.498	U	4.88	0.498	ug/Kg			01/27/22 23:11	1
Benzene	0.615	U	4.88	0.615	ug/Kg			01/27/22 23:11	1
1,2-Dichloroethane	0.508	U	4.88	0.508	ug/Kg			01/27/22 23:11	1
Trichloroethene	0.273	U	4.88	0.273	ug/Kg			01/27/22 23:11	1
1,1,1-Trichloroethane	0.488	U	4.88	0.488	ug/Kg			01/27/22 23:11	1
1,1-Dichloroethane	0.576	U	4.88	0.576	ug/Kg			01/27/22 23:11	1
1,2-Dichloropropane	0.488	U	4.88	0.488	ug/Kg			01/27/22 23:11	1
1,4-Dioxane	18.6	U	97.7	18.6	ug/Kg			01/27/22 23:11	1
Chloroform	0.850	U	4.88	0.850	ug/Kg			01/27/22 23:11	1
Bromodichloromethane	0.195	U	4.88	0.195	ug/Kg			01/27/22 23:11	1
1,1-Dichloropropene	0.508	U	4.88	0.508	ug/Kg			01/27/22 23:11	1
cis-1,3-Dichloropropene	0.439	U	4.88	0.439	ug/Kg			01/27/22 23:11	1
Toluene	0.879	U	4.88	0.879	ug/Kg			01/27/22 23:11	1
trans-1,3-Dichloropropene	0.508	U	4.88	0.508	ug/Kg			01/27/22 23:11	1
1,1,2-Trichloroethane	0.488	U	4.88	0.488	ug/Kg			01/27/22 23:11	1
Tetrachloroethene	0.723	U *	4.88	0.723	ug/Kg			01/27/22 23:11	1
1,3-Dichloropropene, Total	0.508	U	4.88	0.508	ug/Kg			01/27/22 23:11	1
1,2-Dibromoethane	0.293	U	4.88	0.293	ug/Kg			01/27/22 23:11	1
Monochlorobenzene	0.293	U	4.88	0.293	ug/Kg			01/27/22 23:11	1
Ethylbenzene	0.439	U	4.88	0.439	ug/Kg			01/27/22 23:11	1
Xylenes, Total	0.488	U	9.77	0.488	ug/Kg			01/27/22 23:11	1
Styrene	0.293	U	4.88	0.293	ug/Kg			01/27/22 23:11	1
Tribromomethane	0.498	U	4.88	0.498	ug/Kg			01/27/22 23:11	1
1,1,2,2-Tetrachloroethane	0.371	U	4.88	0.371	ug/Kg			01/27/22 23:11	1
1,4-Dichlorobenzene	0.313	U	4.88	0.313	ug/Kg			01/27/22 23:11	1
1,2-Dichlorobenzene	0.244	U	4.88	0.244	ug/Kg			01/27/22 23:11	1
1,2,4-Trichlorobenzene	0.947	U	4.88	0.947	ug/Kg			01/27/22 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*65 - 152*		*01/27/22 23:11*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/27/22 23:11*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 136*		*01/27/22 23:11*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*01/27/22 23:11*	*1*

Method: 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	0.00500	0.00250	mg/Kg		02/01/22 11:08	02/03/22 01:53	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 6-S-3-4-220125
Lab Sample ID: 860-19761-2
Date Collected: 01/25/22 12:23
Matrix: Solid
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*106*		*63 - 144*	*02/01/22 11:08*	*02/03/22 01:53*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.8	U	65.0	11.8	ug/Kg		02/04/22 15:17	02/08/22 21:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*77*		*30 - 164*	*02/04/22 15:17*	*02/08/22 21:06*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.3	U	166	17.3	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
bis (2-chloroisopropyl) ether	17.8	U	166	17.8	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
2,6-Dinitrotoluene	23.3	U	166	23.3	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Anthracene	13.8	U	166	13.8	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Chrysene	16.5	U	166	16.5	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Dimethyl phthalate	15.9	U	166	15.9	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Fluorene	13.8	U	166	13.8	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Hexachloroethane	17.3	U	166	17.3	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Isophorone	14.5	U	166	14.5	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		01/27/22 07:17	01/27/22 18:18	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 6-S-3-4-220125 **Lab Sample ID: 860-19761-2**
Date Collected: 01/25/22 12:23 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Pyrene	14.6	U	166	14.6	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Naphthalene	15.6	U	166	15.6	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Nitrobenzene	18.5	U	166	18.5	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		01/27/22 07:17	01/27/22 18:18	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	333	332	ug/Kg		01/27/22 07:17	01/27/22 18:18	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*	*01/27/22 07:17*	*01/27/22 18:18*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*107*		*30 - 115*	*01/27/22 07:17*	*01/27/22 18:18*	*1*
2-Fluorophenol	*100*		*25 - 121*	*01/27/22 07:17*	*01/27/22 18:18*	*1*
2,4,6-Tribromophenol	*108*		*19 - 122*	*01/27/22 07:17*	*01/27/22 18:18*	*1*
Nitrobenzene-d5	*99*		*23 - 129*	*01/27/22 07:17*	*01/27/22 18:18*	*1*
Phenol-d5 (Surr)	*100*		*24 - 113*	*01/27/22 07:17*	*01/27/22 18:18*	*1*
p-Terphenyl-d14 (Surr)	*119*		*18 - 137*	*01/27/22 07:17*	*01/27/22 18:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.8	21.0	mg/Kg		02/01/22 12:48	02/02/22 20:19	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		02/01/22 12:48	02/02/22 20:19	1
OII Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		02/01/22 12:48	02/02/22 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*65 - 130*	*02/01/22 12:48*	*02/02/22 20:19*	*1*
o-Terphenyl (Surr)	*105*		*65 - 130*	*02/01/22 12:48*	*02/02/22 20:19*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.831	0.253	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Aldrin	0.362	U	0.831	0.362	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Hexachlorocyclohexane, alpha-	0.678	U	0.831	0.678	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Hexachlorocyclohexane, beta-	0.473	U	0.831	0.473	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Chlordane (technical)	23.8	U	41.6	23.8	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Hexachlorocyclohexane, delta-	0.831	U	0.831	0.831	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Dieldrin	0.169	U	0.831	0.169	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Endosulfan I	0.201	U	0.831	0.201	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Endosulfan II	0.371	U	0.831	0.371	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Endosulfan sulfate	0.275	U	0.831	0.275	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Endrin	0.290	U	0.831	0.290	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Endrin aldehyde	0.247	U	0.831	0.247	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Hexachlorocyclohexane, gamma-	0.438	U	0.831	0.438	ug/Kg		01/26/22 08:34	01/28/22 17:12	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 6-S-3-4-220125 Lab Sample ID: 860-19761-2

Date Collected: 01/25/22 12:23 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.831	0.561	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Heptachlor epoxide	0.244	U	0.831	0.244	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/26/22 08:34	01/28/22 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*35 - 135*	*01/26/22 08:34*	*01/28/22 17:12*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*25 - 143*	*01/26/22 08:34*	*01/28/22 17:12*	*1*

Method: 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		01/26/22 08:34	01/27/22 21:27	1
Aroclor 1221	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/27/22 21:27	1
Aroclor 1232	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/27/22 21:27	1
Aroclor 1242	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/27/22 21:27	1
Aroclor 1248	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/27/22 21:27	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 21:27	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*35 - 140*	*01/26/22 08:34*	*01/27/22 21:27*	*1*
DCB Decachlorobiphenyl (Surr)	*118*		*37 - 142*	*01/26/22 08:34*	*01/27/22 21:27*	*1*

Method: 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	0.0227	U	0.0999	0.0227	mg/Kg		02/05/22 11:25	02/10/22 13:00	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 13:00	1
2,4,6-Trinitrotoluene	0.0307	U	0.0999	0.0307	mg/Kg		02/05/22 11:25	02/10/22 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*108*		*83 - 122*	*02/05/22 11:25*	*02/10/22 13:00*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.9**		9.84	3.48	mg/Kg		01/26/22 15:18	01/27/22 13:12	1
Nitrate as N	**5.90**		0.984	0.106	mg/Kg		01/26/22 15:18	01/27/22 13:12	1
Fluoride	**6.30**		4.92	0.984	mg/Kg		01/26/22 15:18	01/27/22 13:12	1
Nitrite as N	**0.116**	**J b**	0.984	0.0492	mg/Kg		01/26/22 15:18	01/27/22 13:12	1
Nitrate Nitrite as N	**6.01**	**b**	0.984	0.00492	mg/Kg		01/26/22 15:18	01/27/22 13:12	1
Sulfate	**126**		9.84	4.25	mg/Kg		01/26/22 15:18	01/27/22 13:12	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.321**	**J**	0.457	0.0754	ug/Kg		02/03/22 17:49	02/08/22 19:39	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.220	U H	0.765	0.220	ug/Kg		02/10/22 11:04	02/16/22 13:24	1
Perfluorohexanesulfonic acid (PFHxS)	0.268	U H	0.765	0.268	ug/Kg		02/10/22 11:04	02/16/22 13:24	1
Perfluorooctanesulfonic acid (PFOS)	0.134	U H	0.765	0.134	ug/Kg		02/10/22 11:04	02/16/22 13:24	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 6-S-3-4-220125 Lab Sample ID: 860-19761-2

Date Collected: 01/25/22 12:23 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	02/10/22 11:04	02/16/22 13:24	1
13C8 PFOS	110		70 - 130	02/10/22 11:04	02/16/22 13:24	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.153	U	1.92	0.153	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Arsenic	**3.43**	**J**	3.85	0.593	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Barium	**331**		3.85	0.334	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Beryllium	**0.190**	**J**	1.92	0.178	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Cadmium	0.112	U	1.92	0.112	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Chromium	**4.11**		3.85	0.261	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Copper	**1.55**	**J**	3.85	0.251	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Iron	**3490**		19.2	2.25	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Manganese	**25.6**		1.92	0.245	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Lead	**1.90**	**J**	1.92	0.186	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Antimony	**0.188**	**J**	1.92	0.114	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Selenium	0.477	U	1.92	0.477	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Thallium	0.230	U	1.92	0.230	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Uranium	**0.538**	**J**	0.962	0.0575	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Zinc	**10.2**		3.85	0.426	mg/Kg		02/02/22 12:57	02/04/22 13:52	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0125**	**J**	0.0189	0.00363	mg/Kg		01/28/22 08:00	01/28/22 13:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**37.0**	**J**	61.5	30.5	ug/Kg		02/08/22 15:02	02/08/22 16:34	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:46	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.0**	**HF**			SU			02/08/22 15:18	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**178**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**1.51**		0.257	0.314	1.00	0.154	pCi/g	02/07/22 10:12	02/28/22 11:01	1
Radium-228	0.211	U	0.325	0.326		0.450	pCi/g	02/07/22 10:12	02/28/22 11:01	1
Combined Radium 226 + 228	**1.72**		0.414	0.453		0.450	pCi/g	02/07/22 10:12	02/28/22 11:01	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(65-152)	(65-139)	(50-136)	(61-142)
860-19761-1	Cell19-Square 193-S-3-4-220125	93	94	93	112
860-19761-2	Cell19-Square 6-S-3-4-220125	97	94	95	109
LCS 560-192640/3	Lab Control Sample	94	94	96	116
LCSD 560-192640/4	Lab Control Sample Dup	94	95	96	117
MB 560-192640/7	Method Blank	92	95	93	111

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCA
Lab Sample ID	Client Sample ID	(63-144)
860-19761-1	Cell19-Square 193-S-3-4-220125	91
860-19761-2	Cell19-Square 6-S-3-4-220125	106
LCS 860-39864/11	Lab Control Sample	90
LCS 860-40051/11	Lab Control Sample	101
LCSD 860-39864/12	Lab Control Sample Dup	92
LCSD 860-40051/12	Lab Control Sample Dup	102
MB 860-39864/16	Method Blank	91
MB 860-40051/16	Method Blank	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19761-1	Cell19-Square 193-S-3-4-220125	85 *
860-19761-2	Cell19-Square 6-S-3-4-220125	77
LCS 400-565562/2-A	Lab Control Sample	95 *
MB 400-565562/1-A	Method Blank	80

Surrogate Legend

TPP = Triphenylphosphate

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(30-115)	(25-121)	(19-122)	(23-129)	(24-113)	(18-137)
860-19761-1	Cell19-Square 193-S-3-4-220125	113	102	116	109	101	131
860-19761-2	Cell19-Square 6-S-3-4-220125	107	100	108	99	100	119

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(30-115)	(25-121)	(19-122)	(23-129)	(24-113)	(18-137)
860-19761-2 MS	Cell19-Square 6-S-3-4-220125	93	92	101	89	94	97
860-19761-2 MSD	Cell19-Square 6-S-3-4-220125	100	95	116	92	101	108
LCS 860-39056/2-A	Lab Control Sample	98	94	110	96	97	107
LCSD 860-39056/3-A	Lab Control Sample Dup	105	101	116	97	104	108
MB 860-39056/1-A	Method Blank	122 X	116	121	118	114 X	130

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(65-130)	(65-130)
860-19761-1 - RA	Cell19-Square 193-S-3-4-220125	109	99
860-19761-2 - RA	Cell19-Square 6-S-3-4-220125	115	105
LCS 860-39790/2-A - RA	Lab Control Sample	107	100
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	110	103
MB 860-39790/1-A - RA	Method Blank	105	97

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(35-135)	(25-143)
860-19761-1	Cell19-Square 193-S-3-4-220125	68	72
860-19761-2	Cell19-Square 6-S-3-4-220125	71	78
LCS 860-38890/2-A	Lab Control Sample	88	107
LCSD 860-38890/3-A	Lab Control Sample Dup	86	107
MB 860-38890/1-A	Method Blank	95	115

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)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(35-140)	(37-142)
860-19761-1	Cell19-Square 193-S-3-4-220125	59	115

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX1 (35-140)	DCB1 (37-142)								
860-19761-2	Cell19-Square 6-S-3-4-220125	59	118								
LCS 860-38890/4-A	Lab Control Sample	72	86								
LCSD 860-38890/5-A	Lab Control Sample Dup	67	87								
MB 860-38890/1-A	Method Blank	80	91								

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)									
860-19761-1	Cell19-Square 193-S-3-4-220125	106									
860-19761-2	Cell19-Square 6-S-3-4-220125	108									
LCS 280-565272/2-A	Lab Control Sample	99									
MB 280-565272/1-A	Method Blank	105									

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)								
860-19761-1	Cell19-Square 193-S-3-4-220125	101	109								
860-19761-2	Cell19-Square 6-S-3-4-220125	104	110								
DLCK 280-556129/13	Lab Control Sample	98	105								
LCS 280-565681/2-A	Lab Control Sample	104	108								
MB 280-565681/1-A	Method Blank	104	107								

Surrogate Legend

C8PFOA = 13C8 PFOA

C8PFOS = 13C8 PFOS

QC Sample Results

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

Job ID: 860-19761-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192640/7
Matrix: Solid
Analysis Batch: 192640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/27/22 17:15	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/27/22 17:15	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/27/22 17:15	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/27/22 17:15	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/27/22 17:15	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/27/22 17:15	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/27/22 17:15	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/27/22 17:15	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/27/22 17:15	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/27/22 17:15	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/27/22 17:15	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/27/22 17:15	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/27/22 17:15	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/27/22 17:15	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/27/22 17:15	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/27/22 17:15	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/27/22 17:15	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/27/22 17:15	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/27/22 17:15	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/27/22 17:15	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/27/22 17:15	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/27/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 152*		*01/27/22 17:15*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 17:15*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 17:15*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*01/27/22 17:15*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 560-192640/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	35.80		ug/Kg		89	13 - 130
Chloromethane	40.0	29.10		ug/Kg		73	61 - 137
Vinyl chloride	40.0	34.22		ug/Kg		86	65 - 139
Bromomethane	40.0	32.15		ug/Kg		80	57 - 155
Trichlorofluoromethane	40.0	32.83		ug/Kg		82	68 - 146
Acrolein	395	383.2		ug/Kg		97	20 - 150
1,1-Dichloroethene	40.0	35.68		ug/Kg		89	70 - 130
trans-1,2-Dichloroethene	40.0	35.03		ug/Kg		88	70 - 132
Methyl tert-butyl ether	40.0	37.20		ug/Kg		93	70 - 130
1,3-Dichlorobenzene	40.0	35.27		ug/Kg		88	70 - 130
Methylene Chloride	40.0	33.56		ug/Kg		84	61 - 150
Acrylonitrile	400	374.6		ug/Kg		94	66 - 137
cis-1,2-Dichloroethene	40.0	36.33		ug/Kg		91	70 - 130
Carbon tetrachloride	40.0	31.85		ug/Kg		80	70 - 136
Benzene	40.0	35.70		ug/Kg		89	70 - 131
1,2-Dichloroethane	40.0	31.23		ug/Kg		78	70 - 130
Trichloroethene	40.0	34.26		ug/Kg		86	70 - 130
1,1,1-Trichloroethane	40.0	31.86		ug/Kg		80	70 - 132
1,1-Dichloroethane	40.0	34.37		ug/Kg		86	70 - 130
1,2-Dichloropropane	40.0	36.83		ug/Kg		92	70 - 130
1,4-Dioxane	800	833.9		ug/Kg		104	10 - 150
Chloroform	40.0	32.99		ug/Kg		82	70 - 130
Bromodichloromethane	40.0	34.83		ug/Kg		87	70 - 130
1,1-Dichloropropene	40.0	37.02		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	32.77		ug/Kg		82	70 - 130
Toluene	40.0	32.19		ug/Kg		80	70 - 130
trans-1,3-Dichloropropene	40.0	35.13		ug/Kg		88	70 - 131
1,1,2-Trichloroethane	40.0	33.40		ug/Kg		84	70 - 130
Tetrachloroethene	40.0	27.27	*	ug/Kg		68	70 - 130
1,3-Dichloropropene, Total	80.0	67.90		ug/Kg		85	
1,2-Dibromoethane	40.0	32.91		ug/Kg		82	70 - 130
Monochlorobenzene	40.0	31.49		ug/Kg		79	70 - 130
Ethylbenzene	40.0	35.33		ug/Kg		88	70 - 130
Xylenes, Total	80.0	73.91		ug/Kg		92	70 - 130
Styrene	40.0	36.75		ug/Kg		92	70 - 130
Tribromomethane	40.0	29.36		ug/Kg		73	59 - 137
1,1,2,2-Tetrachloroethane	40.0	38.53		ug/Kg		96	70 - 130
1,4-Dichlorobenzene	40.0	33.92		ug/Kg		85	70 - 130
1,2-Dichlorobenzene	40.0	34.72		ug/Kg		87	70 - 130
1,2,4-Trichlorobenzene	40.0	36.85		ug/Kg		92	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*94*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 560-192640/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192640

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			40.0	40.95		ug/Kg		102	13 - 130	13	30.0
Chloromethane			40.0	32.52		ug/Kg		81	61 - 137	11	30.0
Vinyl chloride			40.0	37.63		ug/Kg		94	65 - 139	9	30.0
Bromomethane			40.0	36.48		ug/Kg		91	57 - 155	13	30.0
Trichlorofluoromethane			40.0	37.52		ug/Kg		94	68 - 146	13	30.0
Acrolein			395	450.0		ug/Kg		114	20 - 150	16	30.0
1,1-Dichloroethene			40.0	40.79		ug/Kg		102	70 - 130	13	30.0
trans-1,2-Dichloroethene			40.0	40.86		ug/Kg		102	70 - 132	15	30.0
Methyl tert-butyl ether			40.0	44.27		ug/Kg		111	70 - 130	17	30.0
1,3-Dichlorobenzene			40.0	39.74		ug/Kg		99	70 - 130	12	30.0
Methylene Chloride			40.0	38.56		ug/Kg		96	61 - 150	14	30.0
Acrylonitrile			400	428.6		ug/Kg		107	66 - 137	13	30.0
cis-1,2-Dichloroethene			40.0	42.79		ug/Kg		107	70 - 130	16	30.0
Carbon tetrachloride			40.0	38.15		ug/Kg		95	70 - 136	18	30.0
Benzene			40.0	41.87		ug/Kg		105	70 - 131	16	30.0
1,2-Dichloroethane			40.0	36.23		ug/Kg		91	70 - 130	15	30.0
Trichloroethene			40.0	39.85		ug/Kg		100	70 - 130	15	30.0
1,1,1-Trichloroethane			40.0	38.48		ug/Kg		96	70 - 132	19	30.0
1,1-Dichloroethane			40.0	40.81		ug/Kg		102	70 - 130	17	30.0
1,2-Dichloropropane			40.0	41.90		ug/Kg		105	70 - 130	13	30.0
1,4-Dioxane			800	907.5		ug/Kg		113	10 - 150	8	30.0
Chloroform			40.0	38.61		ug/Kg		97	70 - 130	16	30.0
Bromodichloromethane			40.0	41.06		ug/Kg		103	70 - 130	16	30.0
1,1-Dichloropropene			40.0	43.32		ug/Kg		108	70 - 130	16	30.0
cis-1,3-Dichloropropene			40.0	38.69		ug/Kg		97	70 - 130	17	30.0
Toluene			40.0	37.88		ug/Kg		95	70 - 130	16	30.0
trans-1,3-Dichloropropene			40.0	40.99		ug/Kg		102	70 - 131	15	30.0
1,1,2-Trichloroethane			40.0	38.17		ug/Kg		95	70 - 130	13	30.0
Tetrachloroethene			40.0	33.02		ug/Kg		83	70 - 130	19	30.0
1,3-Dichloropropene, Total			80.0	79.68		ug/Kg		100		16	30
1,2-Dibromoethane			40.0	37.63		ug/Kg		94	70 - 130	13	30.0
Monochlorobenzene			40.0	36.20		ug/Kg		90	70 - 130	14	30.0
Ethylbenzene			40.0	40.69		ug/Kg		102	70 - 130	14	30.0
Xylenes, Total			80.0	85.81		ug/Kg		107	70 - 130	15	30.0
Styrene			40.0	41.41		ug/Kg		104	70 - 130	12	30.0
Tribromomethane			40.0	33.15		ug/Kg		83	59 - 137	12	30.0
1,1,2,2-Tetrachloroethane			40.0	44.69		ug/Kg		112	70 - 130	15	30.0
1,4-Dichlorobenzene			40.0	38.17		ug/Kg		95	70 - 130	12	30.0
1,2-Dichlorobenzene			40.0	40.46		ug/Kg		101	70 - 130	15	30.0
1,2,4-Trichlorobenzene			40.0	42.88		ug/Kg		107	68 - 140	15	30.0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*117*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39864/16
Matrix: Solid
Analysis Batch: 39864

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			02/01/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*		*02/01/22 17:15*	*1*

Lab Sample ID: LCS 860-39864/11
Matrix: Solid
Analysis Batch: 39864

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	0.04692		mg/Kg		94	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*

Lab Sample ID: LCSD 860-39864/12
Matrix: Solid
Analysis Batch: 39864

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	0.04791		mg/Kg		96	65 - 135	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 144*

Lab Sample ID: MB 860-40051/16
Matrix: Solid
Analysis Batch: 40051

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			02/03/22 00:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*02/03/22 00:47*	*1*

Lab Sample ID: LCS 860-40051/11
Matrix: Solid
Analysis Batch: 40051

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	0.05356		mg/Kg		107	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-40051/12 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.05670		mg/Kg		113	65 - 135	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-565562/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565810 **Prep Batch: 565562**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/04/22 15:17	02/08/22 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*80*		*30 - 164*	*02/04/22 15:17*	*02/08/22 14:41*	*1*

Lab Sample ID: LCS 400-565562/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565810 **Prep Batch: 565562**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	272.6		ug/Kg		82	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*95*	*	*30 - 164*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39056/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39056**

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		01/27/22 07:17	01/27/22 17:18	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/27/22 07:17	01/27/22 17:18	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39056/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39056**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	13.8	U	167	13.8	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/27/22 07:17	01/27/22 17:18	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/27/22 07:17	01/27/22 17:18	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.667*	*U*	*mg/Kg*			*542-88-1*	*01/27/22 07:17*	*01/27/22 17:18*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*122*	*X*	*30 - 115*	*01/27/22 07:17*	*01/27/22 17:18*	*1*
2-Fluorophenol	*116*		*25 - 121*	*01/27/22 07:17*	*01/27/22 17:18*	*1*
2,4,6-Tribromophenol	*121*		*19 - 122*	*01/27/22 07:17*	*01/27/22 17:18*	*1*
Nitrobenzene-d5	*118*		*23 - 129*	*01/27/22 07:17*	*01/27/22 17:18*	*1*
Phenol-d5 (Surr)	*114*	*X*	*24 - 113*	*01/27/22 07:17*	*01/27/22 17:18*	*1*

QC Sample Results

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

Job ID: 860-19761-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39056/1-A
Matrix: Solid
Analysis Batch: 39132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39056

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14 (Surr)	130		18 - 137	01/27/22 07:17	01/27/22 17:18	1

Lab Sample ID: LCS 860-39056/2-A
Matrix: Solid
Analysis Batch: 39132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39056

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	1153		ug/Kg		86	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	1005		ug/Kg		75	35 - 135
1-Methylnaphthalene	1330	995.9		ug/Kg		75	38 - 127
bis (2-chloroisopropyl) ether	1330	820.5		ug/Kg		62	25 - 124
2,4,5-Trichlorophenol	1330	1092		ug/Kg		82	40 - 135
2,4,6-Trichlorophenol	1330	1074		ug/Kg		81	39 - 139
2,4-Dinitrotoluene	1330	1098		ug/Kg		82	48 - 131
Dinitrophenols	1330	870.1		ug/Kg		65	19 - 131
2,4-Dichlorophenol	1330	1073		ug/Kg		80	36 - 135
2,6-Dinitrotoluene	1330	1053		ug/Kg		79	42 - 136
Dichlorobenzidine, 3,3'-	1330	803.4		ug/Kg		60	35 - 134
4,6-Dinitro-2-methylphenol	1330	1055		ug/Kg		79	30 - 146
Acenaphthene	1330	1019		ug/Kg		76	37 - 131
Anthracene	1330	1099		ug/Kg		82	39 - 139
Acenaphthylene	1330	1049		ug/Kg		79	39 - 129
Benzo[a]anthracene	1330	1036		ug/Kg		78	44 - 135
Benzo[b]fluoranthene	1330	1068		ug/Kg		80	40 - 153
Benzo[k]fluoranthene	1330	1147		ug/Kg		86	33 - 156
Benzo[g,h,i]perylene	1330	987.0		ug/Kg		74	40 - 153
Benzo[a]pyrene	1330	1089		ug/Kg		82	43 - 153
Di (2-ethylhexyl)phthalate	1330	1147		ug/Kg		86	46 - 145
Bis(2-chloroethyl)ether	1330	885.3		ug/Kg		66	33 - 127
Chrysene	1330	993.1		ug/Kg		74	42 - 135
Dibutylphthalate	1330	1107		ug/Kg		83	43 - 142
Dibenz(a,h)anthracene	1330	1024		ug/Kg		77	41 - 155
Diethyl phthalate	1330	1000		ug/Kg		75	45 - 131
Dimethyl phthalate	1330	1044		ug/Kg		78	43 - 132
Fluoranthene	1330	1067		ug/Kg		80	41 - 138
Fluorene	1330	1028		ug/Kg		77	41 - 131
Hexachlorobenzene	1330	1061		ug/Kg		80	36 - 142
Hexachlorobutadiene	1330	976.2		ug/Kg		73	35 - 129
Hexachlorocyclopentadiene	1330	884.0		ug/Kg		66	16 - 106
Hexachloroethane	1330	895.2		ug/Kg		67	36 - 121
Indeno[1,2,3-cd]pyrene	1330	1013		ug/Kg		76	39 - 154
Isophorone	1330	1016		ug/Kg		76	36 - 128
N-Nitrosodi-n-butylamine	1330	1017		ug/Kg		76	34 - 135
N-Nitrosodiethylamine	1330	1017		ug/Kg		76	36 - 127
N-Nitrosodiphenylamine	1330	1094		ug/Kg		82	27 - 155
N-Nitrosopyrrolidine	1330	978.2		ug/Kg		73	38 - 136
Pentachlorobenzene	1330	984.6		ug/Kg		74	38 - 136
Pentachlorophenol	1330	952.3		ug/Kg		71	14 - 148

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39056/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39056**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenanthrene			1330	1058		ug/Kg		79	37 - 139		
Pyrene			1330	1129		ug/Kg		85	42 - 138		
Naphthalene			1330	982.5		ug/Kg		74	35 - 128		
2-Methylnaphthalene			1330	1020		ug/Kg		76	36 - 126		
Nitrobenzene			1330	1040		ug/Kg		78	32 - 129		
Benzidine			1330	387.8		ug/Kg		29	12 - 112		
Phenol			1.33	0.9754		mg/Kg		73	34 - 127		
N-Nitrosodimethylamine			1330	963.1		ug/Kg		72	27 - 126		
Atrazine			1330	1185		ug/Kg		89	18 - 134		
Thiophene, tetrahydro-, 1,1-dioxide			1330	991.3		ug/Kg		74	30 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*98*		*30 - 115*
2-Fluorophenol	*94*		*25 - 121*
2,4,6-Tribromophenol	*110*		*19 - 122*
Nitrobenzene-d5	*96*		*23 - 129*
Phenol-d5 (Surr)	*97*		*24 - 113*
p-Terphenyl-d14 (Surr)	*107*		*18 - 137*

Lab Sample ID: LCSD 860-39056/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39056**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)			1330	1158		ug/Kg		87	20 - 157	0	30
1,2,4,5-Tetrachlorobenzene			1330	1097		ug/Kg		82	35 - 135	9	30
1-Methylnaphthalene			1330	1068		ug/Kg		80	38 - 127	7	30
bis (2-chloroisopropyl) ether			1330	855.5		ug/Kg		64	25 - 124	4	30
2,4,5-Trichlorophenol			1330	1220		ug/Kg		91	40 - 135	11	30
2,4,6-Trichlorophenol			1330	1198		ug/Kg		90	39 - 139	11	30
2,4-Dinitrotoluene			1330	1263		ug/Kg		95	48 - 131	14	30
Dinitrophenols			1330	1040		ug/Kg		78	19 - 131	18	40
2,4-Dichlorophenol			1330	1162		ug/Kg		87	36 - 135	8	30
2,6-Dinitrotoluene			1330	1196		ug/Kg		90	42 - 136	13	30
Dichlorobenzidine, 3,3'-			1330	890.3		ug/Kg		67	35 - 134	10	40
4,6-Dinitro-2-methylphenol			1330	1173		ug/Kg		88	30 - 146	11	40
Acenaphthene			1330	1092		ug/Kg		82	37 - 131	7	30
Anthracene			1330	1171		ug/Kg		88	39 - 139	6	30
Acenaphthylene			1330	1162		ug/Kg		87	39 - 129	10	30
Benzo[a]anthracene			1330	1132		ug/Kg		85	44 - 135	9	30
Benzo[b]fluoranthene			1330	1163		ug/Kg		87	40 - 153	9	30
Benzo[k]fluoranthene			1330	1186		ug/Kg		89	33 - 156	3	30
Benzo[g,h,i]perylene			1330	1119		ug/Kg		84	40 - 153	13	30
Benzo[a]pyrene			1330	1147		ug/Kg		86	43 - 153	5	30
Di (2-ethylhexyl)phthalate			1330	1234		ug/Kg		93	46 - 145	7	30
Bis(2-chloroethyl)ether			1330	941.8		ug/Kg		71	33 - 127	6	30
Chrysene			1330	1063		ug/Kg		80	42 - 135	7	30

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39056/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39056**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibutylphthalate			1330	1192		ug/Kg		89	43 - 142	7	30
Dibenz(a,h)anthracene			1330	1172		ug/Kg		88	41 - 155	13	30
Diethyl phthalate			1330	1121		ug/Kg		84	45 - 131	11	30
Dimethyl phthalate			1330	1151		ug/Kg		86	43 - 132	10	30
Fluoranthene			1330	1171		ug/Kg		88	41 - 138	9	30
Fluorene			1330	1183		ug/Kg		89	41 - 131	14	30
Hexachlorobenzene			1330	1112		ug/Kg		83	36 - 142	5	30
Hexachlorobutadiene			1330	1038		ug/Kg		78	35 - 129	6	30
Hexachlorocyclopentadiene			1330	1004		ug/Kg		75	16 - 106	13	30
Hexachloroethane			1330	952.0		ug/Kg		71	36 - 121	6	30
Indeno[1,2,3-cd]pyrene			1330	1169		ug/Kg		88	39 - 154	14	30
Isophorone			1330	1050		ug/Kg		79	36 - 128	3	30
N-Nitrosodi-n-butylamine			1330	1143		ug/Kg		86	34 - 135	12	30
N-Nitrosodiethylamine			1330	1098		ug/Kg		82	36 - 127	8	30
N-Nitrosodiphenylamine			1330	1134		ug/Kg		85	27 - 155	4	30
N-Nitrosopyrrolidine			1330	1101		ug/Kg		83	38 - 136	12	30
Pentachlorobenzene			1330	1125		ug/Kg		84	38 - 136	13	30
Pentachlorophenol			1330	1089		ug/Kg		82	14 - 148	13	40
Phenanthrene			1330	1146		ug/Kg		86	37 - 139	8	30
Pyrene			1330	1120		ug/Kg		84	42 - 138	1	30
Naphthalene			1330	1027		ug/Kg		77	35 - 128	4	30
2-Methylnaphthalene			1330	1057		ug/Kg		79	36 - 126	4	30
Nitrobenzene			1330	1077		ug/Kg		81	32 - 129	3	30
Benzidine			1330	426.7		ug/Kg		32	12 - 112	10	40
Phenol			1.33	1.054		mg/Kg		79	34 - 127	8	40
N-Nitrosodimethylamine			1330	992.7		ug/Kg		74	27 - 126	3	30
Atrazine			1330	1217		ug/Kg		91	18 - 134	3	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	1047		ug/Kg		79	30 - 130	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*105*		*30 - 115*
2-Fluorophenol	*101*		*25 - 121*
2,4,6-Tribromophenol	*116*		*19 - 122*
Nitrobenzene-d5	*97*		*23 - 129*
Phenol-d5 (Surr)	*104*		*24 - 113*
p-Terphenyl-d14 (Surr)	*108*		*18 - 137*

Lab Sample ID: 860-19761-2 MS **Client Sample ID: Cell19-Square 6-S-3-4-220125**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39056**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	17.3	U	1330	1043		ug/Kg		78	20 - 157
1,2,4,5-Tetrachlorobenzene	16.4	U	1330	971.8		ug/Kg		73	35 - 135
1-Methylnaphthalene	26.6	U	1330	973.3		ug/Kg		73	38 - 127
bis (2-chloroisopropyl) ether	17.8	U	1330	810.4		ug/Kg		61	25 - 124
2,4,5-Trichlorophenol	19.0	U	1330	1050		ug/Kg		79	40 - 135

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-19761-2 MS **Client Sample ID: Cell19-Square 6-S-3-4-220125**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39056**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,6-Trichlorophenol	15.7	U	1330	1047		ug/Kg		79	39 - 139
2,4-Dinitrotoluene	12.7	U	1330	1075		ug/Kg		81	48 - 131
Dinitrophenols	24.2	U	1330	743.4		ug/Kg		56	19 - 131
2,4-Dichlorophenol	17.4	U	1330	1016		ug/Kg		76	36 - 135
2,6-Dinitrotoluene	23.3	U	1330	1044		ug/Kg		79	42 - 136
Dichlorobenzidine, 3,3'-	15.4	U	1330	822.9		ug/Kg		62	35 - 134
4,6-Dinitro-2-methylphenol	12.7	U	1330	987.8		ug/Kg		74	30 - 146
Acenaphthene	15.5	U	1330	986.4		ug/Kg		74	37 - 131
Anthracene	13.8	U	1330	1027		ug/Kg		77	39 - 139
Acenaphthylene	14.7	U	1330	994.6		ug/Kg		75	39 - 129
Benzo[a]anthracene	14.0	U	1330	1012		ug/Kg		76	44 - 135
Benzo[b]fluoranthene	12.5	U	1330	992.9		ug/Kg		75	40 - 153
Benzo[k]fluoranthene	19.3	U	1330	1072		ug/Kg		81	33 - 156
Benzo[g,h,i]perylene	15.3	U	1330	1005		ug/Kg		76	40 - 153
Benzo[a]pyrene	17.2	U	1330	1016		ug/Kg		76	43 - 153
Di (2-ethylhexyl)phthalate	166	U	1330	1094		ug/Kg		82	46 - 145
Bis(2-chloroethyl)ether	15.2	U	1330	864.0		ug/Kg		65	33 - 127
Chrysene	16.5	U	1330	975.3		ug/Kg		73	42 - 135
Dibutylphthalate	16.0	U	1330	1047		ug/Kg		79	43 - 142
Dibenz(a,h)anthracene	12.7	U	1330	1021		ug/Kg		77	41 - 155
Diethyl phthalate	15.3	U	1330	993.2		ug/Kg		75	45 - 131
Dimethyl phthalate	15.9	U	1330	999.4		ug/Kg		75	43 - 132
Fluoranthene	14.7	U	1330	1060		ug/Kg		80	41 - 138
Fluorene	13.8	U	1330	1029		ug/Kg		77	41 - 131
Hexachlorobenzene	16.2	U	1330	998.9		ug/Kg		75	36 - 142
Hexachlorobutadiene	13.8	U	1330	921.7		ug/Kg		69	35 - 129
Hexachlorocyclopentadiene	15.2	U	1330	815.0		ug/Kg		61	16 - 106
Hexachloroethane	17.3	U	1330	861.7		ug/Kg		65	36 - 121
Indeno[1,2,3-cd]pyrene	13.4	U	1330	1024		ug/Kg		77	39 - 154
Isophorone	14.5	U	1330	968.7		ug/Kg		73	36 - 128
N-Nitrosodi-n-butylamine	25.2	U	1330	1013		ug/Kg		76	34 - 135
N-Nitrosodiethylamine	21.9	U	1330	999.6		ug/Kg		75	36 - 127
N-Nitrosodiphenylamine	18.6	U	1330	1019		ug/Kg		77	27 - 155
N-Nitrosopyrrolidine	14.1	U	1330	986.7		ug/Kg		74	38 - 136
Pentachlorobenzene	15.9	U	1330	969.1		ug/Kg		73	38 - 136
Pentachlorophenol	12.1	U	1330	918.6		ug/Kg		69	14 - 148
Phenanthrene	16.5	U	1330	1031		ug/Kg		78	37 - 139
Pyrene	14.6	U	1330	1026		ug/Kg		77	42 - 138
Naphthalene	15.6	U	1330	954.5		ug/Kg		72	35 - 128
2-Methylnaphthalene	45.1	U	1330	975.3		ug/Kg		73	36 - 126
Nitrobenzene	18.5	U	1330	976.2		ug/Kg		73	32 - 129
Benzidine	12.1	U	1330	157.5	J	ug/Kg		12	12 - 112
Phenol	0.0149	U	1.33	0.9671		mg/Kg		73	34 - 127
N-Nitrosodimethylamine	16.7	U	1330	919.5		ug/Kg		69	27 - 126
Atrazine	16.5	U	1330	1145		ug/Kg		86	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	332	U	1330	979.4		ug/Kg		74	

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-19761-2 MS **Client Sample ID: Cell19-Square 6-S-3-4-220125**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39056**

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	93		30 - 115
2-Fluorophenol	92		25 - 121
2,4,6-Tribromophenol	101		19 - 122
Nitrobenzene-d5	89		23 - 129
Phenol-d5 (Surr)	94		24 - 113
p-Terphenyl-d14 (Surr)	97		18 - 137

Lab Sample ID: 860-19761-2 MSD **Client Sample ID: Cell19-Square 6-S-3-4-220125**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39056**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	17.3	U	1330	1129		ug/Kg		85	20 - 157	8	30
1,2,4,5-Tetrachlorobenzene	16.4	U	1330	1026		ug/Kg		77	35 - 135	5	30
1-Methylnaphthalene	26.6	U	1330	1021		ug/Kg		77	38 - 127	5	30
bis (2-chloroisopropyl) ether	17.8	U	1330	818.9		ug/Kg		62	25 - 124	1	30
2,4,5-Trichlorophenol	19.0	U	1330	1156		ug/Kg		87	40 - 135	10	30
2,4,6-Trichlorophenol	15.7	U	1330	1133		ug/Kg		85	39 - 139	8	30
2,4-Dinitrotoluene	12.7	U	1330	1165		ug/Kg		87	48 - 131	8	30
Dinitrophenols	24.2	U	1330	893.6		ug/Kg		67	19 - 131	18	40
2,4-Dichlorophenol	17.4	U	1330	1067		ug/Kg		80	36 - 135	5	30
2,6-Dinitrotoluene	23.3	U	1330	1121		ug/Kg		84	42 - 136	7	30
Dichlorobenzidine, 3,3'-	15.4	U	1330	897.1		ug/Kg		67	35 - 134	9	40
4,6-Dinitro-2-methylphenol	12.7	U	1330	1100		ug/Kg		83	30 - 146	11	40
Acenaphthene	15.5	U	1330	1058		ug/Kg		79	37 - 131	7	30
Anthracene	13.8	U	1330	1111		ug/Kg		83	39 - 139	8	30
Acenaphthylene	14.7	U	1330	1087		ug/Kg		82	39 - 129	9	30
Benzo[a]anthracene	14.0	U	1330	1101		ug/Kg		83	44 - 135	8	30
Benzo[b]fluoranthene	12.5	U	1330	1078		ug/Kg		81	40 - 153	8	30
Benzo[k]fluoranthene	19.3	U	1330	1147		ug/Kg		86	33 - 156	7	30
Benzo[g,h,i]perylene	15.3	U	1330	1079		ug/Kg		81	40 - 153	7	30
Benzo[a]pyrene	17.2	U	1330	1112		ug/Kg		83	43 - 153	9	30
Di (2-ethylhexyl)phthalate	166	U	1330	1182		ug/Kg		89	46 - 145	8	30
Bis(2-chloroethyl)ether	15.2	U	1330	885.6		ug/Kg		67	33 - 127	2	30
Chrysene	16.5	U	1330	1053		ug/Kg		79	42 - 135	8	30
Dibutylphthalate	16.0	U	1330	1154		ug/Kg		87	43 - 142	10	30
Dibenz(a,h)anthracene	12.7	U	1330	1113		ug/Kg		84	41 - 155	9	30
Diethyl phthalate	15.3	U	1330	1099		ug/Kg		83	45 - 131	10	30
Dimethyl phthalate	15.9	U	1330	1097		ug/Kg		82	43 - 132	9	30
Fluoranthene	14.7	U	1330	1143		ug/Kg		86	41 - 138	8	30
Fluorene	13.8	U	1330	1113		ug/Kg		84	41 - 131	8	30
Hexachlorobenzene	16.2	U	1330	1081		ug/Kg		81	36 - 142	8	30
Hexachlorobutadiene	13.8	U	1330	947.5		ug/Kg		71	35 - 129	3	30
Hexachlorocyclopentadiene	15.2	U	1330	879.8		ug/Kg		66	16 - 106	8	30
Hexachloroethane	17.3	U	1330	870.0		ug/Kg		65	36 - 121	1	30
Indeno[1,2,3-cd]pyrene	13.4	U	1330	1110		ug/Kg		83	39 - 154	8	30
Isophorone	14.5	U	1330	997.5		ug/Kg		75	36 - 128	3	30
N-Nitrosodi-n-butylamine	25.2	U	1330	1053		ug/Kg		79	34 - 135	4	30

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-19761-2 MSD **Client Sample ID: Cell19-Square 6-S-3-4-220125**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39056**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodiethylamine	21.9	U	1330	1025		ug/Kg		77	36 - 127	2	30
N-Nitrosodiphenylamine	18.6	U	1330	1084		ug/Kg		81	27 - 155	6	30
N-Nitrosopyrrolidine	14.1	U	1330	1011		ug/Kg		76	38 - 136	2	30
Pentachlorobenzene	15.9	U	1330	1047		ug/Kg		79	38 - 136	8	30
Pentachlorophenol	12.1	U	1330	1005		ug/Kg		75	14 - 148	9	40
Phenanthrene	16.5	U	1330	1111		ug/Kg		83	37 - 139	7	30
Pyrene	14.6	U	1330	1105		ug/Kg		83	42 - 138	7	30
Naphthalene	15.6	U	1330	965.6		ug/Kg		73	35 - 128	1	30
2-Methylnaphthalene	45.1	U	1330	1007		ug/Kg		76	36 - 126	3	30
Nitrobenzene	18.5	U	1330	1006		ug/Kg		76	32 - 129	3	30
Benzidine	12.1	U	1330	320.9	J N2	ug/Kg		24	12 - 112	68	40
Phenol	0.0149	U	1.33	1.012		mg/Kg		76	34 - 127	5	40
N-Nitrosodimethylamine	16.7	U	1330	923.8		ug/Kg		69	27 - 126	0	30
Atrazine	16.5	U	1330	1215		ug/Kg		91	18 - 134	6	40
Thiophene, tetrahydro-, 1,1-dioxide	332	U	1330	1020		ug/Kg		77		4	

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*100*		*30 - 115*
2-Fluorophenol	*95*		*25 - 121*
2,4,6-Tribromophenol	*116*		*19 - 122*
Nitrobenzene-d5	*92*		*23 - 129*
Phenol-d5 (Surr)	*101*		*24 - 113*
p-Terphenyl-d14 (Surr)	*108*		*18 - 137*

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

Lab Sample ID: MB 860-39790/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Diesel Range Organics (Over C10-C28) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
OII Range Organics (Over C28-C36) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane - RA	*105*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*
o-Terphenyl (Surr) - RA	*97*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*

Lab Sample ID: LCS 860-39790/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10 - RA	994	1024		mg/Kg		103	70 - 135

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 860-39790/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics (Over C10-C28) - RA			996	974.9		mg/Kg		98	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane - RA	*107*		*65 - 130*
o-Terphenyl (Surr) - RA	*100*		*65 - 130*

Lab Sample ID: LCSD 860-39790/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10 - RA			994	1028		mg/Kg		103	70 - 135	0	35
Diesel Range Organics (Over C10-C28) - RA			996	1002		mg/Kg		101	70 - 135	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane - RA	*110*		*65 - 130*
o-Terphenyl (Surr) - RA	*103*		*65 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/26/22 08:34	01/26/22 14:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*35 - 135*	*01/26/22 08:34*	*01/26/22 14:18*	*1*
DCB Decachlorobiphenyl (Surr)	*115*		*25 - 143*	*01/26/22 08:34*	*01/26/22 14:18*	*1*

QC Sample Results

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

Job ID: 860-19761-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 860-38890/2-A
Matrix: Solid
Analysis Batch: 38895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38890

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DDT			16.7	19.14		ug/Kg		115	13 - 192		
Aldrin			16.7	18.43		ug/Kg		111	30 - 152		
Hexachlorocyclohexane, alpha-			16.7	17.42		ug/Kg		105	29 - 160		
Hexachlorocyclohexane, beta-			16.7	19.15		ug/Kg		115	30 - 155		
Hexachlorocyclohexane, delta-			16.7	17.69		ug/Kg		106	20 - 161		
Dieldrin			16.7	19.24		ug/Kg		115	33 - 153		
Endosulfan I			16.7	18.57		ug/Kg		111	30 - 151		
Endosulfan II			16.7	17.20		ug/Kg		103	27 - 153		
Endosulfan sulfate			16.7	18.75		ug/Kg		112	15 - 170		
Endrin			16.7	20.31		ug/Kg		122	25 - 162		
Endrin aldehyde			16.7	18.29		ug/Kg		110	49 - 117		
Hexachlorocyclohexane, gamma-			16.7	18.31		ug/Kg		110	30 - 158		
Heptachlor			16.7	18.86		ug/Kg		113	29 - 163		
Heptachlor epoxide			16.7	18.26		ug/Kg		110	30 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

Lab Sample ID: LCSD 860-38890/3-A
Matrix: Solid
Analysis Batch: 38895

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38890

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT			16.7	18.62		ug/Kg		112	13 - 192	3	25
Aldrin			16.7	18.12		ug/Kg		109	30 - 152	2	25
Hexachlorocyclohexane, alpha-			16.7	17.11		ug/Kg		103	29 - 160	2	25
Hexachlorocyclohexane, beta-			16.7	18.75		ug/Kg		113	30 - 155	2	25
Hexachlorocyclohexane, delta-			16.7	17.26		ug/Kg		104	20 - 161	2	25
Dieldrin			16.7	18.81		ug/Kg		113	33 - 153	2	25
Endosulfan I			16.7	18.15		ug/Kg		109	30 - 151	2	25
Endosulfan II			16.7	16.84		ug/Kg		101	27 - 153	2	25
Endosulfan sulfate			16.7	18.21		ug/Kg		109	15 - 170	3	25
Endrin			16.7	19.79		ug/Kg		119	25 - 162	3	25
Endrin aldehyde			16.7	17.90		ug/Kg		107	49 - 117	2	25
Hexachlorocyclohexane, gamma-			16.7	17.85		ug/Kg		107	30 - 158	3	25
Heptachlor			16.7	18.53		ug/Kg		111	29 - 163	2	25
Heptachlor epoxide			16.7	17.76		ug/Kg		107	30 - 150	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

QC Sample Results

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

Job ID: 860-19761-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-38890/1-A
Matrix: Solid
Analysis Batch: 38913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38890

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*35 - 140*	*01/26/22 08:34*	*01/26/22 14:24*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 142*	*01/26/22 08:34*	*01/26/22 14:24*	*1*

Lab Sample ID: LCS 860-38890/4-A
Matrix: Solid
Analysis Batch: 38913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38890

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			0.167	0.1416		mg/Kg		85	27 - 121		
Aroclor 1260			0.167	0.1484		mg/Kg		89	27 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*86*		*37 - 142*

Lab Sample ID: LCSD 860-38890/5-A
Matrix: Solid
Analysis Batch: 38913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38890

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1363		mg/Kg		82	27 - 121	4	20
Aroclor 1260			0.167	0.1452		mg/Kg		87	27 - 139	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*67*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*87*		*37 - 142*

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565272/1-A
Matrix: Solid
Analysis Batch: 565637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565272

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		02/05/22 11:25	02/10/22 06:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 06:07	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/05/22 11:25	02/10/22 06:07	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: MB 280-565272/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	02/05/22 11:25	02/10/22 06:07	1

Lab Sample ID: LCS 280-565272/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.9312		mg/Kg		93	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	1.00	0.9739		mg/Kg		97	80 - 124
2,4,6-Trinitrotoluene	1.00	0.9953		mg/Kg		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	99		83 - 122

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-39027/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38814 **Prep Batch: 39027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/26/22 18:46	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/26/22 18:46	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/26/22 18:46	1

Lab Sample ID: MB 860-39027/28-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38814 **Prep Batch: 39027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/26/22 23:31	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/26/22 23:31	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/26/22 23:31	1

Lab Sample ID: MB 860-39027/57-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38814 **Prep Batch: 39027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrite as N	0.08762	J	1.00	0.0500	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrate Nitrite as N	0.1812	J	1.00	0.00500	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/27/22 06:39	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-39027/58-A
Matrix: Solid
Analysis Batch: 38814
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	103.2		mg/Kg		103	80 - 120
Nitrate as N	100	96.19		mg/Kg		96	80 - 120
Fluoride	100	100.1		mg/Kg		100	80 - 120
Nitrite as N	50.0	48.60		mg/Kg		97	80 - 120
Sulfate	100	95.71		mg/Kg		96	80 - 120

Lab Sample ID: LCSD 860-39027/3-A
Matrix: Solid
Analysis Batch: 38814
Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39027

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	103.9		mg/Kg		104	80 - 120	0	20
Fluoride	100	101.5		mg/Kg		101	80 - 120	0	20
Sulfate	100	97.19		mg/Kg		97	80 - 120	0	20

Lab Sample ID: LCSD 860-39027/59-A
Matrix: Solid
Analysis Batch: 38814
Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39027

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	99.30		mg/Kg		99	80 - 120	4	20
Nitrate as N	100	93.62		mg/Kg		94	80 - 120	3	20
Fluoride	100	97.49		mg/Kg		97	80 - 120	3	20
Nitrite as N	50.0	47.43		mg/Kg		95	80 - 120	2	20
Sulfate	100	93.07		mg/Kg		93	80 - 120	3	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12
Matrix: Solid
Analysis Batch: 564802
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.04711	J	ug/L		94	70 - 130

Lab Sample ID: MB 280-565161/1-A
Matrix: Solid
Analysis Batch: 565540
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:01	1

Lab Sample ID: LCS 280-565161/2-A
Matrix: Solid
Analysis Batch: 565540
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5047		ug/Kg		101	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13
Matrix: Solid
Analysis Batch: 556129

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

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.500	0.490	U	ug/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4417	J	ug/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		95	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

Lab Sample ID: MB 280-565681/1-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565681

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/10/22 11:04	02/16/22 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/10/22 11:04*	*02/16/22 11:21*	*1*
13C8 PFOS	*107*		*70 - 130*	*02/10/22 11:04*	*02/16/22 11:21*	*1*

Lab Sample ID: LCS 280-565681/2-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	20.31		ug/Kg		102	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	18.45		ug/Kg		101	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.74		ug/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*108*		*70 - 130*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-39983/1-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/02/22 12:56	02/04/22 12:37	1

QC Sample Results

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

Job ID: 860-19761-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 860-39983/1-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/02/22 12:56	02/04/22 12:37	1

Lab Sample ID: LCS 860-39983/2-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	5.00	4.950		mg/Kg		99	80 - 120
Arsenic	10.0	10.41		mg/Kg		104	80 - 120
Barium	10.0	9.918		mg/Kg		99	80 - 120
Beryllium	10.0	10.08		mg/Kg		101	80 - 120
Cadmium	10.0	10.42		mg/Kg		104	80 - 120
Chromium	10.0	10.57		mg/Kg		106	80 - 120
Copper	10.0	10.37		mg/Kg		104	80 - 120
Iron	50.0	52.35		mg/Kg		105	80 - 120
Manganese	10.0	10.93		mg/Kg		109	80 - 120
Lead	10.0	9.971		mg/Kg		100	80 - 120
Antimony	10.0	9.820		mg/Kg		98	80 - 120
Selenium	10.0	10.46		mg/Kg		105	80 - 120
Thallium	10.0	9.997		mg/Kg		100	80 - 120
Uranium	2.50	2.407		mg/Kg		96	80 - 120
Zinc	10.0	11.99		mg/Kg		120	80 - 120

Lab Sample ID: LCSD 860-39983/3-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39983

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.90	4.888		mg/Kg		100	80 - 120	1	20
Arsenic	9.80	10.36		mg/Kg		106	80 - 120	0	20
Barium	9.80	9.905		mg/Kg		101	80 - 120	0	20
Beryllium	9.80	10.11		mg/Kg		103	80 - 120	0	20
Cadmium	9.80	10.29		mg/Kg		105	80 - 120	1	20
Chromium	9.80	10.30		mg/Kg		105	80 - 120	3	20
Copper	9.80	10.18		mg/Kg		104	80 - 120	2	20
Iron	49.0	51.04		mg/Kg		104	80 - 120	3	20
Manganese	9.80	10.60		mg/Kg		108	80 - 120	3	20
Lead	9.80	9.940		mg/Kg		101	80 - 120	0	20
Antimony	9.80	9.828		mg/Kg		100	80 - 120	0	20

QC Sample Results

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

Job ID: 860-19761-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-39983/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40322 — **Prep Batch: 39983**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	9.80	10.36		mg/Kg		106	80 - 120	1	20
Thallium	9.80	9.988		mg/Kg		102	80 - 120	0	20
Uranium	2.45	2.417		mg/Kg		99	80 - 120	0	20
Zinc	9.80	11.39		mg/Kg		116	80 - 120	5	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39207/10-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39207**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00356	U	0.0185	0.00356	mg/Kg		01/28/22 08:00	01/28/22 12:43	1

Lab Sample ID: LCS 860-39207/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39207**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.192	0.2007		mg/Kg		104	80 - 120

Lab Sample ID: LCSD 860-39207/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39207**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.192	0.1950		mg/Kg		101	80 - 120	3	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40711/16-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/08/22 15:02	02/08/22 16:20	1

Lab Sample ID: MB 860-40711/3-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/08/22 15:02	02/08/22 15:59	1

Lab Sample ID: LCS 860-40711/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	101.9		ug/Kg		102	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LLCS 860-40711/18-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40738 **Prep Batch: 40711**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	50.0	52.87		ug/Kg		106	90 - 110

Method: 9045D - pH

Lab Sample ID: 860-19761-1 DU **Client Sample ID: Cell19-Square 193-S-3-4-220125**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 40717

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.6	HF	8.7		SU		0.5	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193206/1 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/15/22 15:10	1

Lab Sample ID: LCS 560-193206/2 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	2250	2124		mg/L		94	90 - 110

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: LCS 160-549553/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 552706 **Prep Batch: 549553**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.2	96.60		11.6		1.13	pCi/g	100	75 - 125
Cesium-137	26.0	26.44		3.22		0.201	pCi/g	102	75 - 125
Cobalt-60	8.07	8.469		1.06		0.145	pCi/g	105	75 - 125

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	5035	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	5035	

Analysis Batch: 39864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8260D SIM	39768
MB 860-39864/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-39864/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-39864/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 40051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8260D SIM	39768
MB 860-40051/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-40051/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-40051/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8260B	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8260B	
MB 560-192640/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192640/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192640/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	3550C	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	3550C	
MB 860-39056/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39056/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39056/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-19761-2 MS	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	3550C	
860-19761-2 MSD	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	3550C	

Analysis Batch: 39132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8270D	39056
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8270D	39056
MB 860-39056/1-A	Method Blank	Total/NA	Solid	8270D	39056
LCS 860-39056/2-A	Lab Control Sample	Total/NA	Solid	8270D	39056
LCSD 860-39056/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	39056
860-19761-2 MS	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8270D	39056
860-19761-2 MSD	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8270D	39056

Prep Batch: 565562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	3546	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	3546	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS Semi VOA (Continued)

Prep Batch: 565562 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-565562/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 565810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8270D	565562
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8270D	565562
MB 400-565562/1-A	Method Blank	Total/NA	Solid	8270D	565562
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	8270D	565562

GC Semi VOA

Prep Batch: 38890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	3550C	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	3550C	
MB 860-38890/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 38895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8081B	38890
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	8081B	38890
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	38890

Analysis Batch: 38913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8082A	38890
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	8082A	38890
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	38890

Analysis Batch: 39187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8082A	38890
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8082A	38890

Analysis Batch: 39319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8081B	38890
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8081B	38890

Prep Batch: 39790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1 - RA	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8015NM Prep	
860-19761-2 - RA	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8015NM Prep	
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Analysis Batch: 39915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1 - RA	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8015B NM	39790
860-19761-2 - RA	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8015B NM	39790
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015B NM	39790
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015B NM	39790
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39790

HPLC/IC

Analysis Batch: 38814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	9056A	39027
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	9056A	39027
MB 860-39027/1-A	Method Blank	Total/NA	Solid	9056A	39027
MB 860-39027/28-A	Method Blank	Total/NA	Solid	9056A	39027
MB 860-39027/57-A	Method Blank	Total/NA	Solid	9056A	39027
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	9056A	39027
LCSD 860-39027/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027

Analysis Batch: 38815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	9056A	39027
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	9056A	39027
MB 860-39027/57-A	Method Blank	Total/NA	Solid	9056A	39027
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	9056A	39027
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027

Prep Batch: 39027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	300_Prep	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	300_Prep	
MB 860-39027/1-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-39027/28-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-39027/57-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-39027/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Drying Batch: 564725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	Prep/Air Dry	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8330B	564725
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8330B	564725
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Analysis Batch: 565637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8330B	565272
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8330B	565272
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	565272
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	565272

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	6860	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	6860	
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	6860	565161
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	6860	565161
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	565161
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	565161

Prep Batch: 565681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	PFC leach	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	PFC leach	
MB 280-565681/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 566232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	DV-LC-0012	565681
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	DV-LC-0012	565681
MB 280-565681/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565681
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565681

Metals

Prep Batch: 39207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	7471A	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	7471A	
MB 860-39207/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39207/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39207/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Analysis Batch: 39396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	7471A	39207
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	7471A	39207
MB 860-39207/10-A	Method Blank	Total/NA	Solid	7471A	39207
LCS 860-39207/11-A	Lab Control Sample	Total/NA	Solid	7471A	39207
LCSD 860-39207/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39207

Prep Batch: 39983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	3051A	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	3051A	
MB 860-39983/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-39983/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-39983/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 40322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	6020A	39983
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	6020A	39983
MB 860-39983/1-A	Method Blank	Total/NA	Solid	6020A	39983
LCS 860-39983/2-A	Lab Control Sample	Total/NA	Solid	6020A	39983
LCSD 860-39983/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	39983

General Chemistry

Analysis Batch: 39359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	Moisture - 2540	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	Moisture - 2540	
MB 860-39359/1	Method Blank	Total/NA	Solid	Moisture - 2540	
860-19761-2 DU	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	Moisture - 2540	

Leach Batch: 40687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Soluble	Solid	DI Leach	
860-19761-2	Cell19-Square 6-S-3-4-220125	Soluble	Solid	DI Leach	
860-19761-1 DU	Cell19-Square 193-S-3-4-220125	Soluble	Solid	DI Leach	

Prep Batch: 40711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	9012A	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	9012A	
MB 860-40711/16-A	Method Blank	Total/NA	Solid	9012A	
MB 860-40711/3-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40711/4-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40711/18-A	Lab Control Sample	Total/NA	Solid	9012A	

Analysis Batch: 40717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Soluble	Solid	9045D	40687
860-19761-2	Cell19-Square 6-S-3-4-220125	Soluble	Solid	9045D	40687
860-19761-1 DU	Cell19-Square 193-S-3-4-220125	Soluble	Solid	9045D	40687

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Analysis Batch: 40738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	9012A	40711
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	9012A	40711
MB 860-40711/16-A	Method Blank	Total/NA	Solid	9012A	40711
MB 860-40711/3-A	Method Blank	Total/NA	Solid	9012A	40711
LCS 860-40711/4-A	Lab Control Sample	Total/NA	Solid	9012A	40711
LLCS 860-40711/18-A	Lab Control Sample	Total/NA	Solid	9012A	40711

Prep Batch: 42223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	Distill/Phenol	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 42401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	9066	42223
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	9066	42223

Leach Batch: 193204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	7 Day Leach	Solid	335.521	
860-19761-2	Cell19-Square 6-S-3-4-220125	7 Day Leach	Solid	335.521	

Analysis Batch: 193206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	7 Day Leach	Solid	SM 2540C	193204
860-19761-2	Cell19-Square 6-S-3-4-220125	7 Day Leach	Solid	SM 2540C	193204
MB 560-193206/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193206/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	Dry and Grind	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	Dry and Grind	

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	Fill_Geo-21	549041
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	Fill_Geo-21	549041
LCS 160-549553/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 193-S-3-4-220125 **Lab Sample ID: 860-19761-1**
Date Collected: 01/25/22 12:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.95 g	5 mL	192640	01/27/22 22:45	RJD	XEN CC
Total/NA	Prep	5035			4.98 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 20:54	EM	XEN STF
Total/NA	Prep	3550C			30.01 g	1 mL	39056	01/27/22 07:17	JN	XEN STF
Total/NA	Analysis	8270D		1			39132	01/27/22 21:19	T1S	XEN STF
Total/NA	Prep	3546			15.33 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 20:40	PP1	TAL PEN
Total/NA	Prep	8015NM Prep	RA		10.02 g	10 mL	39790	02/01/22 12:48	SAR	XEN STF
Total/NA	Analysis	8015B NM	RA	1			39915	02/02/22 20:00	T1S	XEN STF
Total/NA	Prep	3550C			30.05 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			39319	01/28/22 16:59	WP	XEN STF
Total/NA	Prep	3550C			30.05 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			39187	01/27/22 21:18	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.25 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 12:37	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.97 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38814	01/27/22 13:01	ANP	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38815	01/27/22 13:01	ANP	XEN STF
Total/NA	Prep	6860			10.64 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:34	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.66 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 13:15	AGCM	TAL DEN
Total/NA	Prep	3051A			.57 g	50 mL	39983	02/02/22 12:57	PB	XEN STF
Total/NA	Analysis	6020A		10			40322	02/04/22 13:49	DCL	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	39207	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 13:04	SHZ	XEN STF
Total/NA	Prep	9012A			0.4940 g	6 mL	40711	02/08/22 15:02	CM1	XEN STF
Total/NA	Analysis	9012A		1			40738	02/08/22 16:33	CM1	XEN STF
Soluble	Leach	DI Leach			20.01 g	20 mL	40687	02/08/22 12:55	TL	XEN STF
Soluble	Analysis	9045D		1	20.01 g	20 mL	40717	02/08/22 15:18	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:38	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			333.7000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552701	02/28/22 11:02	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 6-S-3-4-220125 Lab Sample ID: 860-19761-2

Date Collected: 01/25/22 12:23 **Matrix: Solid**
Date Received: 01/26/22 11:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.12 g	5 mL	192640	01/27/22 23:11	RJD	XEN CC
Total/NA	Prep	5035			5.00 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 01:53	A1S	XEN STF
Total/NA	Prep	3550C			30.05 g	1 mL	39056	01/27/22 07:17	JN	XEN STF
Total/NA	Analysis	8270D		1			39132	01/27/22 18:18	T1S	XEN STF
Total/NA	Prep	3546			15.23 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 21:06	PP1	TAL PEN
Total/NA	Prep	8015NM Prep	RA		10.04 g	10 mL	39790	02/01/22 12:48	SAR	XEN STF
Total/NA	Analysis	8015B NM	RA	1			39915	02/02/22 20:19	T1S	XEN STF
Total/NA	Prep	3550C			30.07 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			39319	01/28/22 17:12	WP	XEN STF
Total/NA	Prep	3550C			30.07 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			39187	01/27/22 21:27	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.01 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 13:00	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.08 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38814	01/27/22 13:12	ANP	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38815	01/27/22 13:12	ANP	XEN STF
Total/NA	Prep	6860			10.93 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:39	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.46 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 13:24	AGCM	TAL DEN
Total/NA	Prep	3051A			.52 g	50 mL	39983	02/02/22 12:57	PB	XEN STF
Total/NA	Analysis	6020A		10			40322	02/04/22 13:52	DCL	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	39207	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 13:05	SHZ	XEN STF
Total/NA	Prep	9012A			0.4882 g	6 mL	40711	02/08/22 15:02	CM1	XEN STF
Total/NA	Analysis	9012A		1			40738	02/08/22 16:34	CM1	XEN STF
Soluble	Leach	DI Leach			20.01 g	20 mL	40687	02/08/22 12:55	TL	XEN STF
Soluble	Analysis	9045D		1	20.01 g	20 mL	40717	02/08/22 15:18	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:46	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			301.2000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552706	02/28/22 11:01	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

Laboratory: Eurofins St. Louis

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19761-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19761-1	Cell19-Square 193-S-3-4-220125	Solid	01/25/22 12:55	01/26/22 11:22
860-19761-2	Cell19-Square 6-S-3-4-220125	Solid	01/25/22 12:23	01/26/22 11:22

Page 537 of 959

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

2/28/2022

Client Information	Sampler: Cory Rodriguez	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-631-3011	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 - 1
Company: ARCADIS U.S. Inc.				Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Standard			
State, Zip: CO 80129-2377	PO #:			
Phone: 303-710-7537(Tel)	WO #:			
Email: Alison.Schaffer@arcadis.com				
Project Name: Chevron Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B- Volatiles	8270C- Semivolatiles/ 8081 Pesticides/ 8082 PCB	6850 Perchlorate-Ddenver- soil jar 4 oz	8330B - Denver soil jar 4 oz	PFC Denver- plastic 16 oz jar	8270D_AgChem -Pensacola soil jar 4 oz	2540C_Calcd Lasal Method/ Moisture/ pH 8046	8015B_GRO	8015_DRO/ORO	GA-01_R_ra- Rad 226/228- St Louis- 2 plastic jars 16	9066- Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate, Fluoride	6020/7471- St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
Cell 19-Square 193-S-3-4-220125	1/25/22	1255	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
Cell 19-Square 6-S-3-4-220125	1/25/22	1223	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

860-19761 Chain of Custody

Temp 3.1 IR ID HOU-323
C/F +0.2
Corrected Temp: 3.3

TB

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Cory Rodriguez	1/25/22 1700	Arcadis			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					1/26/22 14:22	
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Received by OCD: 9/12/2022 9:41:21 AM
Released to Imaging: 10/28/2022 10:00:56 AM

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9688.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19761-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/14/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell19-Square 193-5-3-4-220125 (860-19761-1)	1/25/22	12:55 Central		Solid			X	1	
Cell19-Square 6-5-3-4-220125 (860-19761-2)	1/25/22	12:23 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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
FED EX	1/26/22		FED EX		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: JAN 28 2022 1120	Company: EA STL
Relinquished by:	Date/Time:	Company	Received by: Autumn R. Johnson	Date/Time:	Company

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

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9687.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19761-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/11/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell19-Square 193-5-3-4-220125 (860-19761-1)	1/25/22	12:55 Central		Solid			X	X	X	2	
Cell19-Square 6-5-3-4-220125 (860-19761-2)	1/25/22	12:23 Central		Solid			X	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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			[signature]	1/27/22 1005	ETAPEN
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: 1.4 IR13(F-0.2

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9686.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-19761-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 2/14/2022			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell19-Square 193-5-3-4-220125 (860-19761-1)	1/25/22	12:55 Central		Solid			X	1	
Cell19-Square 6-5-3-4-220125 (860-19761-2)	1/25/22	12:23 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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Linda	1/26/22				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1-27-22 1427	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.0 °C IR8

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9685.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19761-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/11/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B_Solid (MOD) mod	2540C/TX_7Day_T	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square 193-5-3-4-220125 (860-19761-1)	1/25/22	12:55 Central		Solid			X	X	1	
Cell19-Square 6-5-3-4-220125 (860-19761-2)	1/25/22	12:23 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Linda	1/26/22		Caitlyn Torres	01/27/2022 1130	EX
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: 2.9 Cor IR-10 2.8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19761-1

Login Number: 19761 **List Source: Eurofins Houston**
List Number: 1
Creator: Torrez, Lisandra

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	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19761-1

Login Number: 19761 **List Source: Eurofins Houston**
List Number: 2
Creator: Torrez, Lisandra

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19761-1

Login Number: 19761 **List Source: Eurofins Corpus Christi**
List Number: 3 **List Creation: 01/27/22 01:39 PM**
Creator: Forrester, Caitlyn D

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.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19761-1

Login Number: 19761 **List Source: Eurofins Denver**
List Number: 5 **List Creation: 01/27/22 04:37 PM**
Creator: Rystrom, Joshua R

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	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	COC not relinquished.
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").	True	
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: 860-19761-1

Login Number: 19761 **List Source: Eurofins Pensacola**
List Number: 4 **List Creation: 01/27/22 04:55 PM**
Creator: Whitley, Adrian

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	0.0°C IR8
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: 860-19761-1

Login Number: 19761 **List Source: Eurofins St. Louis**
List Number: 6 **List Creation: 02/01/22 12:03 PM**
Creator: Johnson, Autumn R

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	
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.	N/A	

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ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19931-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
2/28/2022 6:02:59 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

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

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

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

Laboratory Job ID: 860-19931-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the 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.
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 Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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.

LCMS

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.

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

General Chemistry

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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.
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.
¤	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

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19931-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19931-1

Receipt
The samples were received on 1/28/2022 10:19 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C

GC/MS VOA
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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-39525 and analytical batch 860-39561 recovered outside control limits for the following analyte: Atrazine.

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: (860-19931-E-1-B MS). These results have been reported and qualified.

Method 8270D: The surrogate recovery for the laboratory control sample and laboratory control sample duplicate (LCS/LCSD) associated with preparation batch 860-40040 and analytical batch 860-40104 was outside the upper control limits.

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

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

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

Pesticides
Method 8081B: The laboratory control sample (LCS) associated with preparation batch 860-39480 and analytical batch 860-39536 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC
Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell20-Square 66-S-3-4-220127 (860-19931-1) and Cell20-Square 40-S-3-4-220127 (860-19931-2) in preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell20-Square 66-S-3-4-220127 (860-19931-1) and Cell20-Square 40-S-3-4-220127 (860-19931-2). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell20-Square 66-S-3-4-220127 (860-19931-1) and Cell20-Square 40-S-3-4-220127 (860-19931-2) in preparation batch 280-564725 and 280-565272 by 8330B_Sonc_10g for 8330B.

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

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19931-1 (Continued)

Laboratory: Eurofins Houston (Continued)

LCMS

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

PFAS

Method PFC: During pH adjustment, the following samples required 2 mL of acid to reach the desired pH: Cell20-Square 66-S-3-4-220127 (860-19931-1). Most samples take less than 1 mL to reach the desired range preparation batch 280-565681. Method:PFC

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 9066: The laboratory control sample (LCS) for preparation batch 860-42380 and analytical batch 860-43154 recovered outside control limits for the following analytes: Phenols, Total. These analytes were biased high in the LCS and were not detected in the associated samples; 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.

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 AnalyteTh-234 Pa-234Th-234 U-238Pb-210 Po-210 Pb-210 Bi-210Cs-137 Ba-137mPb-212 Po-216Xe-131m Xe-131Sb-125 Te-125mAg-108m Ag-108Rh-106 Ru-106Pb-212 Th-228Pb-212 Ra-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. Cell20-Square 66-S-3-4-220127 (860-19931-1), Cell20-Square 40-S-3-4-220127 (860-19931-2), (LCS 160-549553/2-A) and (MB 160-549553/1-A)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 66-S-3-4-220127 Lab Sample ID: 860-19931-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15.8		9.88	3.50	mg/Kg	1		9056A	Total/NA
Nitrate as N	24.7		0.988	0.107	mg/Kg	1		9056A	Total/NA
Fluoride	1.96	J	4.94	0.988	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.522	J	0.988	0.0494	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	25.2		0.988	0.107	mg/Kg	1		9056A	Total/NA
Sulfate	461		9.88	4.27	mg/Kg	1		9056A	Total/NA
Arsenic	2.34	J	3.57	0.551	mg/Kg	10		6020A	Total/NA
Barium	138		3.57	0.310	mg/Kg	10		6020A	Total/NA
Beryllium	0.195	J	1.79	0.165	mg/Kg	10		6020A	Total/NA
Chromium	4.80		3.57	0.242	mg/Kg	10		6020A	Total/NA
Copper	2.13	J	3.57	0.233	mg/Kg	10		6020A	Total/NA
Iron	3370		17.9	2.09	mg/Kg	10		6020A	Total/NA
Manganese	39.9		1.79	0.227	mg/Kg	10		6020A	Total/NA
Lead	2.09		1.79	0.173	mg/Kg	10		6020A	Total/NA
Antimony	2.38		1.79	0.106	mg/Kg	10		6020A	Total/NA
Uranium	0.322	J	0.893	0.0534	mg/Kg	10		6020A	Total/NA
Zinc	10.2		3.57	0.395	mg/Kg	10		6020A	Total/NA
Mercury	0.00580	J	0.0200	0.00384	mg/Kg	1		7471A	Total/NA
Cyanide, Total	44.7	J	60.6	30.1	ug/Kg	1		9012A	Total/NA
pH	8.9	HF			SU	1		9045D	Soluble
Total Dissolved Solids	347		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell20-Square 40-S-3-4-220127 Lab Sample ID: 860-19931-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.36	J	9.84	3.48	mg/Kg	1		9056A	Total/NA
Nitrate as N	10.4		0.984	0.106	mg/Kg	1		9056A	Total/NA
Fluoride	1.72	J	4.92	0.984	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.442	J	0.984	0.0492	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	10.8		0.984	0.106	mg/Kg	1		9056A	Total/NA
Sulfate	136		9.84	4.25	mg/Kg	1		9056A	Total/NA
Arsenic	2.83	J	3.51	0.541	mg/Kg	10		6020A	Total/NA
Barium	242		3.51	0.304	mg/Kg	10		6020A	Total/NA
Chromium	1.81	J	3.51	0.238	mg/Kg	10		6020A	Total/NA
Copper	1.35	J	3.51	0.229	mg/Kg	10		6020A	Total/NA
Iron	1370		17.5	2.06	mg/Kg	10		6020A	Total/NA
Manganese	12.9		1.75	0.223	mg/Kg	10		6020A	Total/NA
Lead	0.865	J	1.75	0.170	mg/Kg	10		6020A	Total/NA
Uranium	0.306	J	0.877	0.0524	mg/Kg	10		6020A	Total/NA
Zinc	5.44		3.51	0.388	mg/Kg	10		6020A	Total/NA
Mercury	0.00824	J	0.0196	0.00377	mg/Kg	1		7471A	Total/NA
pH	9.0	HF			SU	1		9045D	Soluble
Total Dissolved Solids	159		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 66-S-3-4-220127 **Lab Sample ID: 860-19931-1**
Date Collected: 01/27/22 10:30 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.678	U	4.65	0.678	ug/Kg			01/31/22 18:22	1
Chloromethane	1.12	U	4.65	1.12	ug/Kg			01/31/22 18:22	1
Vinyl chloride	0.558	U	4.65	0.558	ug/Kg			01/31/22 18:22	1
Bromomethane	1.02	U	4.65	1.02	ug/Kg			01/31/22 18:22	1
Trichlorofluoromethane	0.465	U	4.65	0.465	ug/Kg			01/31/22 18:22	1
Acrolein	7.99	U	46.5	7.99	ug/Kg			01/31/22 18:22	1
1,1-Dichloroethene	0.465	U	4.65	0.465	ug/Kg			01/31/22 18:22	1
trans-1,2-Dichloroethene	0.465	U	4.65	0.465	ug/Kg			01/31/22 18:22	1
Methyl tert-butyl ether	0.567	U	4.65	0.567	ug/Kg			01/31/22 18:22	1
1,3-Dichlorobenzene	0.288	U	4.65	0.288	ug/Kg			01/31/22 18:22	1
Methylene Chloride	4.65	U	23.2	4.65	ug/Kg			01/31/22 18:22	1
Acrylonitrile	3.35	U	46.5	3.35	ug/Kg			01/31/22 18:22	1
cis-1,2-Dichloroethene	0.530	U	4.65	0.530	ug/Kg			01/31/22 18:22	1
Carbon tetrachloride	0.474	U	4.65	0.474	ug/Kg			01/31/22 18:22	1
Benzene	0.586	U	4.65	0.586	ug/Kg			01/31/22 18:22	1
1,2-Dichloroethane	0.483	U	4.65	0.483	ug/Kg			01/31/22 18:22	1
Trichloroethene	0.260	U	4.65	0.260	ug/Kg			01/31/22 18:22	1
1,1,1-Trichloroethane	0.465	U	4.65	0.465	ug/Kg			01/31/22 18:22	1
1,1-Dichloroethane	0.548	U	4.65	0.548	ug/Kg			01/31/22 18:22	1
1,2-Dichloropropane	0.465	U	4.65	0.465	ug/Kg			01/31/22 18:22	1
1,4-Dioxane	17.7	U	92.9	17.7	ug/Kg			01/31/22 18:22	1
Chloroform	0.809	U	4.65	0.809	ug/Kg			01/31/22 18:22	1
Bromodichloromethane	0.186	U	4.65	0.186	ug/Kg			01/31/22 18:22	1
1,1-Dichloropropene	0.483	U	4.65	0.483	ug/Kg			01/31/22 18:22	1
cis-1,3-Dichloropropene	0.418	U	4.65	0.418	ug/Kg			01/31/22 18:22	1
Toluene	0.836	U	4.65	0.836	ug/Kg			01/31/22 18:22	1
trans-1,3-Dichloropropene	0.483	U	4.65	0.483	ug/Kg			01/31/22 18:22	1
1,1,2-Trichloroethane	0.465	U	4.65	0.465	ug/Kg			01/31/22 18:22	1
Tetrachloroethene	0.688	U	4.65	0.688	ug/Kg			01/31/22 18:22	1
1,3-Dichloropropene, Total	0.483	U	4.65	0.483	ug/Kg			01/31/22 18:22	1
1,2-Dibromoethane	0.279	U	4.65	0.279	ug/Kg			01/31/22 18:22	1
Monochlorobenzene	0.279	U	4.65	0.279	ug/Kg			01/31/22 18:22	1
Ethylbenzene	0.418	U	4.65	0.418	ug/Kg			01/31/22 18:22	1
Xylenes, Total	0.465	U	9.29	0.465	ug/Kg			01/31/22 18:22	1
Styrene	0.279	U	4.65	0.279	ug/Kg			01/31/22 18:22	1
Tribromomethane	0.474	U	4.65	0.474	ug/Kg			01/31/22 18:22	1
1,1,2,2-Tetrachloroethane	0.353	U	4.65	0.353	ug/Kg			01/31/22 18:22	1
1,4-Dichlorobenzene	0.297	U	4.65	0.297	ug/Kg			01/31/22 18:22	1
1,2-Dichlorobenzene	0.232	U	4.65	0.232	ug/Kg			01/31/22 18:22	1
1,2,4-Trichlorobenzene	0.901	U	4.65	0.901	ug/Kg			01/31/22 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 152*		*01/31/22 18:22*	*1*
Toluene-d8 (Surr)	*93*		*65 - 139*		*01/31/22 18:22*	*1*
Dibromofluoromethane (Surr)	*96*		*50 - 136*		*01/31/22 18:22*	*1*
4-Bromofluorobenzene (Surr)	*107*		*61 - 142*		*01/31/22 18:22*	*1*

Method: 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	0.00499	0.00250	mg/Kg		02/01/22 11:08	02/03/22 02:15	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 66-S-3-4-220127 **Lab Sample ID: 860-19931-1**
Date Collected: 01/27/22 10:30 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*106*		*63 - 144*	*02/01/22 11:08*	*02/03/22 02:15*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.9	U	65.4	11.9	ug/Kg		02/10/22 13:33	02/14/22 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*86*		*30 - 164*	*02/10/22 13:33*	*02/14/22 20:02*	*1*

Method: 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		02/02/22 16:54	02/03/22 16:40	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Anthracene	13.8	U	167	13.8	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Chrysene	16.5	U	167	16.5	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Fluorene	13.8	U	167	13.8	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Isophorone	14.5	U	167	14.5	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		02/02/22 16:54	02/03/22 16:40	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 66-S-3-4-220127 **Lab Sample ID: 860-19931-1**
Date Collected: 01/27/22 10:30 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Pyrene	14.6	U	167	14.6	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Naphthalene	15.6	U	167	15.6	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Benzidine	12.1	U	333	12.1	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		02/02/22 16:54	02/03/22 16:40	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Atrazine	16.5	U	333	16.5	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		02/02/22 16:54	02/03/22 16:40	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*	*02/02/22 16:54*	*02/03/22 16:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*95*		*30 - 115*	*02/02/22 16:54*	*02/03/22 16:40*	*1*
2-Fluorophenol	*78*		*25 - 121*	*02/02/22 16:54*	*02/03/22 16:40*	*1*
2,4,6-Tribromophenol	*105*		*19 - 122*	*02/02/22 16:54*	*02/03/22 16:40*	*1*
Nitrobenzene-d5	*81*		*23 - 129*	*02/02/22 16:54*	*02/03/22 16:40*	*1*
Phenol-d5 (Surr)	*81*		*24 - 113*	*02/02/22 16:54*	*02/03/22 16:40*	*1*
p-Terphenyl-d14 (Surr)	*104*		*18 - 137*	*02/02/22 16:54*	*02/03/22 16:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.9	U	49.5	20.9	mg/Kg		02/02/22 10:33	02/02/22 21:18	1
Diesel Range Organics (Over C10-C28)	20.9	U	49.5	20.9	mg/Kg		02/02/22 10:33	02/02/22 21:18	1
OII Range Organics (Over C28-C36)	20.9	U	49.5	20.9	mg/Kg		02/02/22 10:33	02/02/22 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*65 - 130*	*02/02/22 10:33*	*02/02/22 21:18*	*1*
o-Terphenyl (Surr)	*89*		*65 - 130*	*02/02/22 10:33*	*02/02/22 21:18*	*1*

Method: 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		01/29/22 11:03	01/31/22 14:06	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Hexachlorocyclohexane, beta-	0.473	U	0.833	0.473	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Endrin aldehyde	0.247	U *	0.833	0.247	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Hexachlorocyclohexane, gamma-	0.438	U	0.833	0.438	ug/Kg		01/29/22 11:03	01/31/22 14:06	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 66-S-3-4-220127 **Lab Sample ID: 860-19931-1**
Date Collected: 01/27/22 10:30 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/29/22 11:03	01/31/22 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*35 - 135*	*01/29/22 11:03*	*01/31/22 14:06*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*25 - 143*	*01/29/22 11:03*	*01/31/22 14:06*	*1*

Method: 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		01/29/22 11:03	01/31/22 19:28	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:28	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:28	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:28	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:28	1
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:28	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*35 - 140*	*01/29/22 11:03*	*01/31/22 19:28*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 142*	*01/29/22 11:03*	*01/31/22 19:28*	*1*

Method: 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	0.0948	0.0215	mg/Kg		02/05/22 11:25	02/10/22 13:23	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0408	U	0.190	0.0408	mg/Kg		02/05/22 11:25	02/10/22 13:23	1
2,4,6-Trinitrotoluene	0.0291	U	0.0948	0.0291	mg/Kg		02/05/22 11:25	02/10/22 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*02/05/22 11:25*	*02/10/22 13:23*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.8**		9.88	3.50	mg/Kg		02/01/22 20:42	02/02/22 02:56	1
Nitrate as N	**24.7**		0.988	0.107	mg/Kg		02/01/22 20:42	02/02/22 02:56	1
Fluoride	**1.96**	**J**	4.94	0.988	mg/Kg		02/01/22 20:42	02/02/22 02:56	1
Nitrite as N	**0.522**	**J**	0.988	0.0494	mg/Kg		02/01/22 20:42	02/02/22 02:56	1
Nitrate Nitrite as N	**25.2**		0.988	0.107	mg/Kg		02/01/22 20:42	02/02/22 02:56	1
Sulfate	**461**		9.88	4.27	mg/Kg		02/01/22 20:42	02/02/22 02:56	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0816	U	0.495	0.0816	ug/Kg		02/03/22 17:49	02/08/22 19:44	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.213	U	0.742	0.213	ug/Kg		02/10/22 11:04	02/16/22 13:33	1
Perfluorohexanesulfonic acid (PFHxS)	0.260	U	0.742	0.260	ug/Kg		02/10/22 11:04	02/16/22 13:33	1
Perfluorooctanesulfonic acid (PFOS)	0.130	U	0.742	0.130	ug/Kg		02/10/22 11:04	02/16/22 13:33	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 66-S-3-4-220127 **Lab Sample ID: 860-19931-1**
Date Collected: 01/27/22 10:30 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	102		57 - 153	02/10/22 11:04	02/16/22 13:33	1
13C8 PFOS	105		70 - 130	02/10/22 11:04	02/16/22 13:33	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.142	U	1.79	0.142	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Arsenic	**2.34**	**J**	3.57	0.551	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Barium	**138**		3.57	0.310	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Beryllium	**0.195**	**J**	1.79	0.165	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Cadmium	0.104	U	1.79	0.104	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Chromium	**4.80**		3.57	0.242	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Copper	**2.13**	**J**	3.57	0.233	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Iron	**3370**		17.9	2.09	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Manganese	**39.9**		1.79	0.227	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Lead	**2.09**		1.79	0.173	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Antimony	**2.38**		1.79	0.106	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Selenium	0.443	U	1.79	0.443	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Thallium	0.213	U	1.79	0.213	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Uranium	**0.322**	**J**	0.893	0.0534	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Zinc	**10.2**		3.57	0.395	mg/Kg		02/03/22 09:33	02/03/22 13:09	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00580**	**J**	0.0200	0.00384	mg/Kg		02/01/22 08:30	02/01/22 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**44.7**	**J**	60.6	30.1	ug/Kg		02/09/22 15:50	02/09/22 17:21	1
Phenols, Total	0.0600	U *	0.100	0.0600	mg/Kg		02/22/22 10:19	02/24/22 11:47	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.9**	**HF**			SU			02/09/22 14:16	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**347**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**0.624**		0.160	0.176	1.00	0.123	pCi/g	02/07/22 10:12	02/28/22 11:00	1
Radium-228	0.199	U	0.144	0.145		0.330	pCi/g	02/07/22 10:12	02/28/22 11:00	1
Combined Radium 226 + 228	**0.823**		0.215	0.228		0.330	pCi/g	02/07/22 10:12	02/28/22 11:00	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 40-S-3-4-220127 **Lab Sample ID: 860-19931-2**
Date Collected: 01/27/22 10:55 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.681	U	4.66	0.681	ug/Kg			01/31/22 18:48	1
Chloromethane	1.12	U	4.66	1.12	ug/Kg			01/31/22 18:48	1
Vinyl chloride	0.560	U	4.66	0.560	ug/Kg			01/31/22 18:48	1
Bromomethane	1.03	U	4.66	1.03	ug/Kg			01/31/22 18:48	1
Trichlorofluoromethane	0.466	U	4.66	0.466	ug/Kg			01/31/22 18:48	1
Acrolein	8.02	U	46.6	8.02	ug/Kg			01/31/22 18:48	1
1,1-Dichloroethene	0.466	U	4.66	0.466	ug/Kg			01/31/22 18:48	1
trans-1,2-Dichloroethene	0.466	U	4.66	0.466	ug/Kg			01/31/22 18:48	1
Methyl tert-butyl ether	0.569	U	4.66	0.569	ug/Kg			01/31/22 18:48	1
1,3-Dichlorobenzene	0.289	U	4.66	0.289	ug/Kg			01/31/22 18:48	1
Methylene Chloride	4.66	U	23.3	4.66	ug/Kg			01/31/22 18:48	1
Acrylonitrile	3.36	U	46.6	3.36	ug/Kg			01/31/22 18:48	1
cis-1,2-Dichloroethene	0.532	U	4.66	0.532	ug/Kg			01/31/22 18:48	1
Carbon tetrachloride	0.476	U	4.66	0.476	ug/Kg			01/31/22 18:48	1
Benzene	0.588	U	4.66	0.588	ug/Kg			01/31/22 18:48	1
1,2-Dichloroethane	0.485	U	4.66	0.485	ug/Kg			01/31/22 18:48	1
Trichloroethene	0.261	U	4.66	0.261	ug/Kg			01/31/22 18:48	1
1,1,1-Trichloroethane	0.466	U	4.66	0.466	ug/Kg			01/31/22 18:48	1
1,1-Dichloroethane	0.550	U	4.66	0.550	ug/Kg			01/31/22 18:48	1
1,2-Dichloropropane	0.466	U	4.66	0.466	ug/Kg			01/31/22 18:48	1
1,4-Dioxane	17.7	U	93.3	17.7	ug/Kg			01/31/22 18:48	1
Chloroform	0.812	U	4.66	0.812	ug/Kg			01/31/22 18:48	1
Bromodichloromethane	0.187	U	4.66	0.187	ug/Kg			01/31/22 18:48	1
1,1-Dichloropropene	0.485	U	4.66	0.485	ug/Kg			01/31/22 18:48	1
cis-1,3-Dichloropropene	0.420	U	4.66	0.420	ug/Kg			01/31/22 18:48	1
Toluene	0.840	U	4.66	0.840	ug/Kg			01/31/22 18:48	1
trans-1,3-Dichloropropene	0.485	U	4.66	0.485	ug/Kg			01/31/22 18:48	1
1,1,2-Trichloroethane	0.466	U	4.66	0.466	ug/Kg			01/31/22 18:48	1
Tetrachloroethene	0.690	U	4.66	0.690	ug/Kg			01/31/22 18:48	1
1,3-Dichloropropene, Total	0.485	U	4.66	0.485	ug/Kg			01/31/22 18:48	1
1,2-Dibromoethane	0.280	U	4.66	0.280	ug/Kg			01/31/22 18:48	1
Monochlorobenzene	0.280	U	4.66	0.280	ug/Kg			01/31/22 18:48	1
Ethylbenzene	0.420	U	4.66	0.420	ug/Kg			01/31/22 18:48	1
Xylenes, Total	0.466	U	9.33	0.466	ug/Kg			01/31/22 18:48	1
Styrene	0.280	U	4.66	0.280	ug/Kg			01/31/22 18:48	1
Tribromomethane	0.476	U	4.66	0.476	ug/Kg			01/31/22 18:48	1
1,1,2,2-Tetrachloroethane	0.354	U	4.66	0.354	ug/Kg			01/31/22 18:48	1
1,4-Dichlorobenzene	0.299	U	4.66	0.299	ug/Kg			01/31/22 18:48	1
1,2-Dichlorobenzene	0.233	U	4.66	0.233	ug/Kg			01/31/22 18:48	1
1,2,4-Trichlorobenzene	0.905	U	4.66	0.905	ug/Kg			01/31/22 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 152*		*01/31/22 18:48*	*1*
Toluene-d8 (Surr)	*93*		*65 - 139*		*01/31/22 18:48*	*1*
Dibromofluoromethane (Surr)	*98*		*50 - 136*		*01/31/22 18:48*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*01/31/22 18:48*	*1*

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00252	U	0.00504	0.00252	mg/Kg		02/01/22 11:08	02/03/22 02:37	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 40-S-3-4-220127 **Lab Sample ID: 860-19931-2**
Date Collected: 01/27/22 10:55 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*63 - 144*	*02/01/22 11:08*	*02/03/22 02:37*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.7	U	64.2	11.7	ug/Kg		02/10/22 13:33	02/14/22 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*91*		*30 - 164*	*02/10/22 13:33*	*02/14/22 20:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.3	U	166	17.3	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
bis (2-chloroisopropyl) ether	17.7	U	166	17.7	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Dinitrophenols	24.1	U	332	24.1	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
2,4-Dichlorophenol	17.3	U	166	17.3	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
2,6-Dinitrotoluene	23.2	U	166	23.2	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Dichlorobenzidine, 3,3'-	15.3	U	332	15.3	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
4,6-Dinitro-2-methylphenol	12.7	U	332	12.7	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Acenaphthene	15.4	U	166	15.4	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Anthracene	13.7	U	166	13.7	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Benzo[a]pyrene	17.1	U	166	17.1	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Di (2-ethylhexyl)phthalate	166	U	332	166	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Bis(2-chloroethyl)ether	15.1	U	166	15.1	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Chrysene	16.4	U	166	16.4	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Dibenz(a,h)anthracene	12.6	U	166	12.6	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Diethyl phthalate	15.2	U	166	15.2	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Dimethyl phthalate	15.8	U	166	15.8	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Fluoranthene	14.6	U	166	14.6	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Fluorene	13.8	U	166	13.8	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Hexachlorobenzene	16.1	U	166	16.1	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Hexachlorocyclopentadiene	15.1	U	166	15.1	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Hexachloroethane	17.2	U	166	17.2	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Isophorone	14.4	U	166	14.4	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
N-Nitrosodi-n-butylamine	25.1	U	166	25.1	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
N-Nitrosodiethylamine	21.8	U	166	21.8	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
N-Nitrosodiphenylamine	18.5	U	166	18.5	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
N-Nitrosopyrrolidine	14.0	U	166	14.0	ug/Kg		01/31/22 07:24	02/03/22 17:59	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 40-S-3-4-220127 **Lab Sample ID: 860-19931-2**
Date Collected: 01/27/22 10:55 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.8	U	166	15.8	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Pentachlorophenol	12.1	U	332	12.1	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Pyrene	14.5	U	166	14.5	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Naphthalene	15.5	U	166	15.5	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
2-Methylnaphthalene	45.0	U	166	45.0	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Nitrobenzene	18.4	U	166	18.4	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Benzidine	12.0	U	332	12.0	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Phenol	0.0149	U	0.332	0.0149	mg/Kg		01/31/22 07:24	02/03/22 17:59	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Atrazine	16.4	U *	332	16.4	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Thiophene, tetrahydro-, 1,1-dioxide	331	U	332	331	ug/Kg		01/31/22 07:24	02/03/22 17:59	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.663*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 07:24*	*02/03/22 17:59*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*30 - 115*	*01/31/22 07:24*	*02/03/22 17:59*	*1*
2-Fluorophenol	*73*		*25 - 121*	*01/31/22 07:24*	*02/03/22 17:59*	*1*
2,4,6-Tribromophenol	*96*		*19 - 122*	*01/31/22 07:24*	*02/03/22 17:59*	*1*
Nitrobenzene-d5	*73*		*23 - 129*	*01/31/22 07:24*	*02/03/22 17:59*	*1*
Phenol-d5 (Surr)	*73*		*24 - 113*	*01/31/22 07:24*	*02/03/22 17:59*	*1*
p-Terphenyl-d14 (Surr)	*98*		*18 - 137*	*01/31/22 07:24*	*02/03/22 17:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 21:38	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 21:38	1
OII Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*65 - 130*	*02/02/22 10:33*	*02/02/22 21:38*	*1*
o-Terphenyl (Surr)	*82*		*65 - 130*	*02/02/22 10:33*	*02/02/22 21:38*	*1*

Method: 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		01/29/22 11:03	01/31/22 14:22	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Endrin aldehyde	0.247	U *	0.832	0.247	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/29/22 11:03	01/31/22 14:22	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 40-S-3-4-220127 **Lab Sample ID: 860-19931-2**
Date Collected: 01/27/22 10:55 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Heptachlor epoxide	0.245	U	0.832	0.245	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/29/22 11:03	01/31/22 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*35 - 135*	*01/29/22 11:03*	*01/31/22 14:22*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*25 - 143*	*01/29/22 11:03*	*01/31/22 14:22*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:37	1
Aroclor 1221	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:37	1
Aroclor 1232	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:37	1
Aroclor 1242	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:37	1
Aroclor 1248	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:37	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:37	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*35 - 140*	*01/29/22 11:03*	*01/31/22 19:37*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*37 - 142*	*01/29/22 11:03*	*01/31/22 19:37*	*1*

Method: 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	0.0222	U	0.0978	0.0222	mg/Kg		02/05/22 11:25	02/10/22 13:46	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0420	U	0.196	0.0420	mg/Kg		02/05/22 11:25	02/10/22 13:46	1
2,4,6-Trinitrotoluene	0.0300	U	0.0978	0.0300	mg/Kg		02/05/22 11:25	02/10/22 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*105*		*83 - 122*	*02/05/22 11:25*	*02/10/22 13:46*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.36**	**J**	9.84	3.48	mg/Kg		02/01/22 20:42	02/02/22 03:08	1
Nitrate as N	**10.4**		0.984	0.106	mg/Kg		02/01/22 20:42	02/02/22 03:08	1
Fluoride	**1.72**	**J**	4.92	0.984	mg/Kg		02/01/22 20:42	02/02/22 03:08	1
Nitrite as N	**0.442**	**J**	0.984	0.0492	mg/Kg		02/01/22 20:42	02/02/22 03:08	1
Nitrate Nitrite as N	**10.8**		0.984	0.106	mg/Kg		02/01/22 20:42	02/02/22 03:08	1
Sulfate	**136**		9.84	4.25	mg/Kg		02/01/22 20:42	02/02/22 03:08	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0772	U	0.468	0.0772	ug/Kg		02/03/22 17:49	02/08/22 19:49	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.222	U	0.771	0.222	ug/Kg		02/10/22 11:04	02/16/22 13:42	1
Perfluorohexanesulfonic acid (PFHxS)	0.270	U	0.771	0.270	ug/Kg		02/10/22 11:04	02/16/22 13:42	1
Perfluorooctanesulfonic acid (PFOS)	0.135	U	0.771	0.135	ug/Kg		02/10/22 11:04	02/16/22 13:42	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 40-S-3-4-220127 Lab Sample ID: 860-19931-2

Date Collected: 01/27/22 10:55 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	02/10/22 11:04	02/16/22 13:42	1
13C8 PFOS	104		70 - 130	02/10/22 11:04	02/16/22 13:42	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.139	U	1.75	0.139	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Arsenic	**2.83**	**J**	3.51	0.541	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Barium	**242**		3.51	0.304	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Beryllium	0.162	U	1.75	0.162	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Cadmium	0.102	U	1.75	0.102	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Chromium	**1.81**	**J**	3.51	0.238	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Copper	**1.35**	**J**	3.51	0.229	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Iron	**1370**		17.5	2.06	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Manganese	**12.9**		1.75	0.223	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Lead	**0.865**	**J**	1.75	0.170	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Antimony	0.104	U	1.75	0.104	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Selenium	0.435	U	1.75	0.435	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Thallium	0.210	U	1.75	0.210	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Uranium	**0.306**	**J**	0.877	0.0524	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Zinc	**5.44**		3.51	0.388	mg/Kg		02/03/22 09:33	02/03/22 16:51	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00824**	**J**	0.0196	0.00377	mg/Kg		02/01/22 08:30	02/01/22 12:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.7	U	59.8	29.7	ug/Kg		02/09/22 15:50	02/09/22 17:25	1
Phenols, Total	0.0600	U *	0.100	0.0600	mg/Kg		02/22/22 10:19	02/24/22 12:00	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.0**	**HF**			SU			02/09/22 14:16	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**159**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**1.35**		0.231	0.281	1.00	0.141	pCi/g	02/07/22 10:12	02/28/22 11:01	1
Radium-228	0.195	U	0.275	0.276		0.446	pCi/g	02/07/22 10:12	02/28/22 11:01	1
Combined Radium 226 + 228	**1.54**		0.359	0.394		0.446	pCi/g	02/07/22 10:12	02/28/22 11:01	1

Surrogate Summary

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

Job ID: 860-19931-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(65-152)	(65-139)	(50-136)	(61-142)
860-19931-1	Cell20-Square 66-S-3-4-220127	100	93	96	107
860-19931-2	Cell20-Square 40-S-3-4-220127	104	93	98	109
LCS 560-192708/3	Lab Control Sample	97	95	97	116
MB 560-192708/7	Method Blank	93	94	94	109

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID				
LCSD 560-192708/4	Lab Control Sample Dup				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCA
Lab Sample ID	Client Sample ID	(63-144)
860-19931-1	Cell20-Square 66-S-3-4-220127	106
860-19931-2	Cell20-Square 40-S-3-4-220127	111
LCS 860-40051/11	Lab Control Sample	101
LCSD 860-40051/12	Lab Control Sample Dup	102
MB 860-40051/16	Method Blank	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19931-1	Cell20-Square 66-S-3-4-220127	86
860-19931-2	Cell20-Square 40-S-3-4-220127	91
LCS 400-566137/2-A	Lab Control Sample	98
MB 400-566137/1-A	Method Blank	95

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Surrogate Legend
TPP = Triphenylphosphate

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	FBP (30-115)	2FP (25-121)	TBP (19-122)	NBZ (23-129)	PHL (24-113)	TPHd14 (18-137)
860-19931-1	Cell20-Square 66-S-3-4-220127	95	78	105	81	81	104
860-19931-1 MS	Cell20-Square 66-S-3-4-220127	113	108	142 X	99	108	130
860-19931-1 MSD	Cell20-Square 66-S-3-4-220127	105	90	120	85	87	109
860-19931-2	Cell20-Square 40-S-3-4-220127	85	73	96	73	73	98
LCS 860-39525/2-A	Lab Control Sample	79	78	87	74	77	82
LCS 860-40040/2-A	Lab Control Sample	114	115	131 X	101	104	124
LCSD 860-39525/3-A	Lab Control Sample Dup	97	91	106	87	90	99
LCSD 860-40040/3-A	Lab Control Sample Dup	115	109	131 X	99	106	124
MB 860-39525/1-A	Method Blank	81	82	92	84	80	91
MB 860-40040/1-A	Method Blank	114	105	120	103	101	122

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: 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 (65-130)	OTPH1 (65-130)
860-19931-1	Cell20-Square 66-S-3-4-220127	101	89
860-19931-2	Cell20-Square 40-S-3-4-220127	93	82
LCS 860-39790/2-A - RA	Lab Control Sample	107	100
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	110	103
MB 860-39790/1-A - RA	Method Blank	105	97

Surrogate Legend
1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

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)
860-19931-1	Cell20-Square 66-S-3-4-220127	95	103
860-19931-2	Cell20-Square 40-S-3-4-220127	92	90
LCS 860-39480/2-A	Lab Control Sample	101	123
LCSD 860-39480/3-A	Lab Control Sample Dup	100	112

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
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)								
MB 860-39480/1-A	Method Blank	96	108								

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)								
860-19931-1	Cell20-Square 66-S-3-4-220127	82	95								
860-19931-2	Cell20-Square 40-S-3-4-220127	78	82								
LCS 860-39480/4-A	Lab Control Sample	84	83								
LCSD 860-39480/5-A	Lab Control Sample Dup	79	80								
MB 860-39480/1-A	Method Blank	75	81								

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)									
860-19931-1	Cell20-Square 66-S-3-4-220127	106									
860-19931-2	Cell20-Square 40-S-3-4-220127	105									
LCS 280-565272/2-A	Lab Control Sample	99									
MB 280-565272/1-A	Method Blank	105									

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)								
860-19931-1	Cell20-Square 66-S-3-4-220127	102	105								
860-19931-2	Cell20-Square 40-S-3-4-220127	103	104								
DLCK 280-556129/13	Lab Control Sample	98	105								
LCS 280-565681/2-A	Lab Control Sample	104	108								
MB 280-565681/1-A	Method Blank	104	107								

Surrogate Legend

C8PFOA = 13C8 PFOA

C8PFOS = 13C8 PFOS

QC Sample Results

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

Job ID: 860-19931-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192708/7
Matrix: Solid
Analysis Batch: 192708

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/31/22 17:31	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/31/22 17:31	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/31/22 17:31	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/31/22 17:31	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/31/22 17:31	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/31/22 17:31	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/31/22 17:31	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/31/22 17:31	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/31/22 17:31	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/31/22 17:31	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/31/22 17:31	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/31/22 17:31	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/31/22 17:31	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/31/22 17:31	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/31/22 17:31	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/31/22 17:31	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/31/22 17:31	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/31/22 17:31	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/31/22 17:31	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/31/22 17:31	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/31/22 17:31	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/31/22 17:31	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/31/22 17:31	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/31/22 17:31	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/31/22 17:31	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/31/22 17:31	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/31/22 17:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*65 - 152*		*01/31/22 17:31*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/31/22 17:31*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 136*		*01/31/22 17:31*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*01/31/22 17:31*	*1*

QC Sample Results

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

Job ID: 860-19931-1

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

Lab Sample ID: LCS 560-192708/3
Matrix: Solid
Analysis Batch: 192708

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	34.36		ug/Kg		86	13 - 130
Chloromethane	40.0	27.10		ug/Kg		68	61 - 137
Vinyl chloride	40.0	34.62		ug/Kg		87	65 - 139
Bromomethane	40.0	33.04		ug/Kg		83	57 - 155
Trichlorofluoromethane	40.0	33.86		ug/Kg		85	68 - 146
Acrolein	395	400.4		ug/Kg		101	20 - 150
1,1-Dichloroethene	40.0	36.01		ug/Kg		90	70 - 130
trans-1,2-Dichloroethene	40.0	36.31		ug/Kg		91	70 - 132
Methyl tert-butyl ether	40.0	37.80		ug/Kg		94	70 - 130
1,3-Dichlorobenzene	40.0	35.81		ug/Kg		90	70 - 130
Methylene Chloride	40.0	35.93		ug/Kg		90	61 - 150
Acrylonitrile	400	383.7		ug/Kg		96	66 - 137
cis-1,2-Dichloroethene	40.0	37.19		ug/Kg		93	70 - 130
Carbon tetrachloride	40.0	32.72		ug/Kg		82	70 - 136
Benzene	40.0	37.15		ug/Kg		93	70 - 131
1,2-Dichloroethane	40.0	33.42		ug/Kg		84	70 - 130
Trichloroethene	40.0	34.77		ug/Kg		87	70 - 130
1,1,1-Trichloroethane	40.0	34.21		ug/Kg		86	70 - 132
1,1-Dichloroethane	40.0	35.87		ug/Kg		90	70 - 130
1,2-Dichloropropane	40.0	37.59		ug/Kg		94	70 - 130
1,4-Dioxane	800	826.6		ug/Kg		103	10 - 150
Chloroform	40.0	34.91		ug/Kg		87	70 - 130
Bromodichloromethane	40.0	36.92		ug/Kg		92	70 - 130
1,1-Dichloropropene	40.0	37.35		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	34.37		ug/Kg		86	70 - 130
Toluene	40.0	33.36		ug/Kg		83	70 - 130
trans-1,3-Dichloropropene	40.0	36.54		ug/Kg		91	70 - 131
1,1,2-Trichloroethane	40.0	35.23		ug/Kg		88	70 - 130
Tetrachloroethene	40.0	29.92		ug/Kg		75	70 - 130
1,3-Dichloropropene, Total	80.0	70.91		ug/Kg		89	
1,2-Dibromoethane	40.0	34.45		ug/Kg		86	70 - 130
Monochlorobenzene	40.0	32.86		ug/Kg		82	70 - 130
Ethylbenzene	40.0	36.53		ug/Kg		91	70 - 130
Xylenes, Total	80.0	76.14		ug/Kg		95	70 - 130
Styrene	40.0	37.34		ug/Kg		93	70 - 130
Tribromomethane	40.0	30.61		ug/Kg		77	59 - 137
1,1,2,2-Tetrachloroethane	40.0	40.95		ug/Kg		102	70 - 130
1,4-Dichlorobenzene	40.0	34.59		ug/Kg		86	70 - 130
1,2-Dichlorobenzene	40.0	36.35		ug/Kg		91	70 - 130
1,2,4-Trichlorobenzene	40.0	37.86		ug/Kg		95	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*97*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 560-192708/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192708

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			40.0	33.29		ug/Kg					
Chloromethane			40.0	28.33		ug/Kg					
Vinyl chloride			40.0	32.66		ug/Kg					
Bromomethane			40.0	31.81		ug/Kg					
Trichlorofluoromethane			40.0	32.59		ug/Kg					
Acrolein			395	377.9		ug/Kg					
1,1-Dichloroethene			40.0	34.97		ug/Kg					
trans-1,2-Dichloroethene			40.0	35.70		ug/Kg					
Methyl tert-butyl ether			40.0	37.35		ug/Kg					
1,3-Dichlorobenzene			40.0	34.31		ug/Kg					
Methylene Chloride			40.0	34.74		ug/Kg					
Acrylonitrile			400	369.0		ug/Kg					
cis-1,2-Dichloroethene			40.0	36.26		ug/Kg					
Carbon tetrachloride			40.0	32.07		ug/Kg					
Benzene			40.0	36.36		ug/Kg					
1,2-Dichloroethane			40.0	32.07		ug/Kg					
Trichloroethene			40.0	33.88		ug/Kg					
1,1,1-Trichloroethane			40.0	32.99		ug/Kg					
1,1-Dichloroethane			40.0	35.18		ug/Kg					
1,2-Dichloropropane			40.0	36.68		ug/Kg					
1,4-Dioxane			800	795.1		ug/Kg					
Chloroform			40.0	34.02		ug/Kg					
Bromodichloromethane			40.0	35.77		ug/Kg					
1,1-Dichloropropene			40.0	36.69		ug/Kg					
cis-1,3-Dichloropropene			40.0	33.41		ug/Kg					
Toluene			40.0	32.50		ug/Kg					
trans-1,3-Dichloropropene			40.0	35.22		ug/Kg					
1,1,2-Trichloroethane			40.0	33.98		ug/Kg					
Tetrachloroethene			40.0	28.74		ug/Kg					
1,3-Dichloropropene, Total			80.0	68.63		ug/Kg					
1,2-Dibromoethane			40.0	33.01		ug/Kg					
Monochlorobenzene			40.0	31.64		ug/Kg					
Ethylbenzene			40.0	35.09		ug/Kg					
Xylenes, Total			80.0	73.57		ug/Kg					
Styrene			40.0	36.06		ug/Kg					
Tribromomethane			40.0	29.33		ug/Kg					
1,1,2,2-Tetrachloroethane			40.0	38.63		ug/Kg					
1,4-Dichlorobenzene			40.0	33.25		ug/Kg					
1,2-Dichlorobenzene			40.0	34.68		ug/Kg					
1,2,4-Trichlorobenzene			40.0	35.73		ug/Kg					

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)			
Toluene-d8 (Surr)			
Dibromofluoromethane (Surr)			
4-Bromofluorobenzene (Surr)			

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-40051/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

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			02/03/22 00:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*02/03/22 00:47*	*1*

Lab Sample ID: LCS 860-40051/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.05356		mg/Kg		107	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*

Lab Sample ID: LCSD 860-40051/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.05670		mg/Kg		113	65 - 135	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-566137/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/10/22 13:25	02/14/22 17:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*95*		*30 - 164*	*02/10/22 13:25*	*02/14/22 17:25*	*1*

Lab Sample ID: LCS 400-566137/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	313.3		ug/Kg		94	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*98*		*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39525/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

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		01/31/22 07:24	01/31/22 15:17	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/31/22 07:24	01/31/22 15:17	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39525/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/31/22 07:24	01/31/22 15:17	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.667*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 07:24*	*01/31/22 15:17*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*30 - 115*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
2-Fluorophenol	*82*		*25 - 121*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
2,4,6-Tribromophenol	*92*		*19 - 122*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
Nitrobenzene-d5	*84*		*23 - 129*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
Phenol-d5 (Surr)	*80*		*24 - 113*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
p-Terphenyl-d14 (Surr)	*91*		*18 - 137*	*01/31/22 07:24*	*01/31/22 15:17*	*1*

Lab Sample ID: LCS 860-39525/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	758.3		ug/Kg		57	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	828.6		ug/Kg		62	35 - 135
1-Methylnaphthalene	1330	792.3		ug/Kg		59	38 - 127
bis (2-chloroisopropyl) ether	1330	552.7		ug/Kg		41	25 - 124
2,4,5-Trichlorophenol	1330	864.1		ug/Kg		65	40 - 135
2,4,6-Trichlorophenol	1330	851.3		ug/Kg		64	39 - 139
2,4-Dinitrotoluene	1330	820.1		ug/Kg		62	48 - 131
Dinitrophenols	1330	703.9		ug/Kg		53	19 - 131
2,4-Dichlorophenol	1330	870.3		ug/Kg		65	36 - 135
2,6-Dinitrotoluene	1330	768.3		ug/Kg		58	42 - 136
Dichlorobenzidine, 3,3'-	1330	668.5		ug/Kg		50	35 - 134
4,6-Dinitro-2-methylphenol	1330	776.6		ug/Kg		58	30 - 146
Acenaphthene	1330	752.5		ug/Kg		56	37 - 131
Anthracene	1330	805.2		ug/Kg		60	39 - 139
Acenaphthylene	1330	766.0		ug/Kg		57	39 - 129
Benzo[a]anthracene	1330	792.5		ug/Kg		59	44 - 135
Benzo[b]fluoranthene	1330	791.7		ug/Kg		59	40 - 153
Benzo[k]fluoranthene	1330	840.9		ug/Kg		63	33 - 156
Benzo[g,h,i]perylene	1330	730.7		ug/Kg		55	40 - 153
Benzo[a]pyrene	1330	781.0		ug/Kg		59	43 - 153
Di (2-ethylhexyl)phthalate	1330	865.0		ug/Kg		65	46 - 145
Bis(2-chloroethyl)ether	1330	641.8		ug/Kg		48	33 - 127
Chrysene	1330	753.3		ug/Kg		56	42 - 135
Dibutylphthalate	1330	792.2		ug/Kg		59	43 - 142
Dibenz(a,h)anthracene	1330	741.2		ug/Kg		56	41 - 155
Diethyl phthalate	1330	755.0		ug/Kg		57	45 - 131
Dimethyl phthalate	1330	748.1		ug/Kg		56	43 - 132

QC Sample Results

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

Job ID: 860-19931-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39525/2-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	1330	772.9		ug/Kg		58	41 - 138
Fluorene	1330	777.0		ug/Kg		58	41 - 131
Hexachlorobenzene	1330	800.2		ug/Kg		60	36 - 142
Hexachlorobutadiene	1330	835.3		ug/Kg		63	35 - 129
Hexachlorocyclopentadiene	1330	975.8		ug/Kg		73	16 - 106
Hexachloroethane	1330	710.2		ug/Kg		53	36 - 121
Indeno[1,2,3-cd]pyrene	1330	741.3		ug/Kg		56	39 - 154
Isophorone	1330	743.4		ug/Kg		56	36 - 128
N-Nitrosodi-n-butylamine	1330	766.3		ug/Kg		57	34 - 135
N-Nitrosodiethylamine	1330	801.8		ug/Kg		60	36 - 127
N-Nitrosodiphenylamine	1330	800.6		ug/Kg		60	27 - 155
N-Nitrosopyrrolidine	1330	762.5		ug/Kg		57	38 - 136
Pentachlorobenzene	1330	767.7		ug/Kg		58	38 - 136
Pentachlorophenol	1330	870.3		ug/Kg		65	14 - 148
Phenanthrene	1330	777.9		ug/Kg		58	37 - 139
Pyrene	1330	841.1		ug/Kg		63	42 - 138
Naphthalene	1330	792.2		ug/Kg		59	35 - 128
2-Methylnaphthalene	1330	796.2		ug/Kg		60	36 - 126
Nitrobenzene	1330	779.9		ug/Kg		58	32 - 129
Benzidine	1330	247.7	J	ug/Kg		19	12 - 112
Phenol	1.33	0.7528		mg/Kg		56	34 - 127
N-Nitrosodimethylamine	1330	767.2		ug/Kg		58	27 - 126
Atrazine	1330	561.2		ug/Kg		42	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1330	638.5		ug/Kg		48	30 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*30 - 115*
2-Fluorophenol	*78*		*25 - 121*
2,4,6-Tribromophenol	*87*		*19 - 122*
Nitrobenzene-d5	*74*		*23 - 129*
Phenol-d5 (Surr)	*77*		*24 - 113*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*

Lab Sample ID: LCSD 860-39525/3-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	1330	899.2		ug/Kg		67	20 - 157	17	30
1,2,4,5-Tetrachlorobenzene	1330	991.4		ug/Kg		74	35 - 135	18	30
1-Methylnaphthalene	1330	913.6		ug/Kg		69	38 - 127	14	30
bis (2-chloroisopropyl) ether	1330	652.6		ug/Kg		49	25 - 124	17	30
2,4,5-Trichlorophenol	1330	1068		ug/Kg		80	40 - 135	21	30
2,4,6-Trichlorophenol	1330	1027		ug/Kg		77	39 - 139	19	30
2,4-Dinitrotoluene	1330	996.4		ug/Kg		75	48 - 131	19	30
Dinitrophenols	1330	865.9		ug/Kg		65	19 - 131	21	40
2,4-Dichlorophenol	1330	1028		ug/Kg		77	36 - 135	17	30

QC Sample Results

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

Job ID: 860-19931-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39525/3-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39525

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,6-Dinitrotoluene			1330	946.2		ug/Kg		71	42 - 136	21	30
Dichlorobenzidine, 3,3'-			1330	749.6		ug/Kg		56	35 - 134	11	40
4,6-Dinitro-2-methylphenol			1330	984.9		ug/Kg		74	30 - 146	24	40
Acenaphthene			1330	925.8		ug/Kg		69	37 - 131	21	30
Anthracene			1330	966.2		ug/Kg		72	39 - 139	18	30
Acenaphthylene			1330	934.2		ug/Kg		70	39 - 129	20	30
Benzo[a]anthracene			1330	954.4		ug/Kg		72	44 - 135	19	30
Benzo[b]fluoranthene			1330	953.0		ug/Kg		71	40 - 153	18	30
Benzo[k]fluoranthene			1330	1007		ug/Kg		76	33 - 156	18	30
Benzo[g,h,i]perylene			1330	908.8		ug/Kg		68	40 - 153	22	30
Benzo[a]pyrene			1330	945.4		ug/Kg		71	43 - 153	19	30
Di (2-ethylhexyl)phthalate			1330	1053		ug/Kg		79	46 - 145	20	30
Bis(2-chloroethyl)ether			1330	767.8		ug/Kg		58	33 - 127	18	30
Chrysene			1330	916.1		ug/Kg		69	42 - 135	20	30
Dibutylphthalate			1330	965.3		ug/Kg		72	43 - 142	20	30
Dibenz(a,h)anthracene			1330	887.4		ug/Kg		67	41 - 155	18	30
Diethyl phthalate			1330	892.3		ug/Kg		67	45 - 131	17	30
Dimethyl phthalate			1330	916.7		ug/Kg		69	43 - 132	20	30
Fluoranthene			1330	900.5		ug/Kg		68	41 - 138	15	30
Fluorene			1330	934.1		ug/Kg		70	41 - 131	18	30
Hexachlorobenzene			1330	969.6		ug/Kg		73	36 - 142	19	30
Hexachlorobutadiene			1330	970.6		ug/Kg		73	35 - 129	15	30
Hexachlorocyclopentadiene			1330	1156		ug/Kg		87	16 - 106	17	30
Hexachloroethane			1330	842.6		ug/Kg		63	36 - 121	17	30
Indeno[1,2,3-cd]pyrene			1330	879.3		ug/Kg		66	39 - 154	17	30
Isophorone			1330	852.9		ug/Kg		64	36 - 128	14	30
N-Nitrosodi-n-butylamine			1330	896.9		ug/Kg		67	34 - 135	16	30
N-Nitrosodiethylamine			1330	946.7		ug/Kg		71	36 - 127	17	30
N-Nitrosodiphenylamine			1330	938.1		ug/Kg		70	27 - 155	16	30
N-Nitrosopyrrolidine			1330	854.3		ug/Kg		64	38 - 136	11	30
Pentachlorobenzene			1330	963.6		ug/Kg		72	38 - 136	23	30
Pentachlorophenol			1330	985.6		ug/Kg		74	14 - 148	12	40
Phenanthrene			1330	932.3		ug/Kg		70	37 - 139	18	30
Pyrene			1330	1052		ug/Kg		79	42 - 138	22	30
Naphthalene			1330	918.4		ug/Kg		69	35 - 128	15	30
2-Methylnaphthalene			1330	934.0		ug/Kg		70	36 - 126	16	30
Nitrobenzene			1330	917.7		ug/Kg		69	32 - 129	16	30
Benzidine			1330	348.0		ug/Kg		26	12 - 112	34	40
Phenol			1.33	0.8851		mg/Kg		66	34 - 127	16	40
N-Nitrosodimethylamine			1330	885.8		ug/Kg		66	27 - 126	14	30
Atrazine			1330	922.0	*	ug/Kg		69	18 - 134	49	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	747.1		ug/Kg		56	30 - 130	16	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*97*		*30 - 115*
2-Fluorophenol	*91*		*25 - 121*
2,4,6-Tribromophenol	*106*		*19 - 122*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39525/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5	87		23 - 129
Phenol-d5 (Surr)	90		24 - 113
p-Terphenyl-d14 (Surr)	99		18 - 137

Lab Sample ID: MB 860-40040/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40104 **Prep Batch: 40040**

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		02/02/22 16:54	02/03/22 12:59	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Anthracene	13.8	U	167	13.8	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Chrysene	16.5	U	167	16.5	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Fluorene	13.8	U	167	13.8	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Isophorone	14.5	U	167	14.5	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		02/02/22 16:54	02/03/22 12:59	1

QC Sample Results

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

Job ID: 860-19931-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-40040/1-A
Matrix: Solid
Analysis Batch: 40104

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40040

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Pyrene	14.6	U	167	14.6	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Naphthalene	15.6	U	167	15.6	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Benzidine	12.1	U	333	12.1	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		02/02/22 16:54	02/03/22 12:59	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Atrazine	16.5	U	333	16.5	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		02/02/22 16:54	02/03/22 12:59	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.667*	*U*	*mg/Kg*			*542-88-1*	*02/02/22 16:54*	*02/03/22 12:59*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*114*		*30 - 115*	*02/02/22 16:54*	*02/03/22 12:59*	*1*
2-Fluorophenol	*105*		*25 - 121*	*02/02/22 16:54*	*02/03/22 12:59*	*1*
2,4,6-Tribromophenol	*120*		*19 - 122*	*02/02/22 16:54*	*02/03/22 12:59*	*1*
Nitrobenzene-d5	*103*		*23 - 129*	*02/02/22 16:54*	*02/03/22 12:59*	*1*
Phenol-d5 (Surr)	*101*		*24 - 113*	*02/02/22 16:54*	*02/03/22 12:59*	*1*
p-Terphenyl-d14 (Surr)	*122*		*18 - 137*	*02/02/22 16:54*	*02/03/22 12:59*	*1*

Lab Sample ID: LCS 860-40040/2-A
Matrix: Solid
Analysis Batch: 40104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	1126		ug/Kg		84	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	1260		ug/Kg		94	35 - 135
1-Methylnaphthalene	1330	1111		ug/Kg		83	38 - 127
bis (2-chloroisopropyl) ether	1330	741.6		ug/Kg		56	25 - 124
2,4,5-Trichlorophenol	1330	1294		ug/Kg		97	40 - 135
2,4,6-Trichlorophenol	1330	1322		ug/Kg		99	39 - 139
2,4-Dinitrotoluene	1330	1217		ug/Kg		91	48 - 131
Dinitrophenols	1330	997.0		ug/Kg		75	19 - 131
2,4-Dichlorophenol	1330	1230		ug/Kg		92	36 - 135
2,6-Dinitrotoluene	1330	1217		ug/Kg		91	42 - 136
Dichlorobenzidine, 3,3'-	1330	1003		ug/Kg		75	35 - 134
4,6-Dinitro-2-methylphenol	1330	1313		ug/Kg		98	30 - 146
Acenaphthene	1330	1148		ug/Kg		86	37 - 131
Anthracene	1330	1216		ug/Kg		91	39 - 139
Acenaphthylene	1330	1161		ug/Kg		87	39 - 129
Benzo[a]anthracene	1330	1149		ug/Kg		86	44 - 135
Benzo[b]fluoranthene	1330	1134		ug/Kg		85	40 - 153
Benzo[k]fluoranthene	1330	1295		ug/Kg		97	33 - 156

QC Sample Results

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

Job ID: 860-19931-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-40040/2-A
Matrix: Solid
Analysis Batch: 40104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[g,h,i]perylene	1330	1208		ug/Kg		91	40 - 153
Benzo[a]pyrene	1330	1184		ug/Kg		89	43 - 153
Di (2-ethylhexyl)phthalate	1330	1236		ug/Kg		93	46 - 145
Bis(2-chloroethyl)ether	1330	941.4		ug/Kg		71	33 - 127
Chrysene	1330	1176		ug/Kg		88	42 - 135
Dibutylphthalate	1330	1170		ug/Kg		88	43 - 142
Dibenz(a,h)anthracene	1330	1173		ug/Kg		88	41 - 155
Diethyl phthalate	1330	1113		ug/Kg		83	45 - 131
Dimethyl phthalate	1330	1175		ug/Kg		88	43 - 132
Fluoranthene	1330	1147		ug/Kg		86	41 - 138
Fluorene	1330	1206		ug/Kg		90	41 - 131
Hexachlorobenzene	1330	1232		ug/Kg		92	36 - 142
Hexachlorobutadiene	1330	1196		ug/Kg		90	35 - 129
Hexachlorocyclopentadiene	1330	1289		ug/Kg		97	16 - 106
Hexachloroethane	1330	969.0		ug/Kg		73	36 - 121
Indeno[1,2,3-cd]pyrene	1330	1169		ug/Kg		88	39 - 154
Isophorone	1330	1054		ug/Kg		79	36 - 128
N-Nitrosodi-n-butylamine	1330	1063		ug/Kg		80	34 - 135
N-Nitrosodiethylamine	1330	1186		ug/Kg		89	36 - 127
N-Nitrosodiphenylamine	1330	1268		ug/Kg		95	27 - 155
N-Nitrosopyrrolidine	1330	987.7		ug/Kg		74	38 - 136
Pentachlorobenzene	1330	1224		ug/Kg		92	38 - 136
Pentachlorophenol	1330	981.3		ug/Kg		74	14 - 148
Phenanthrene	1330	1212		ug/Kg		91	37 - 139
Pyrene	1330	1265		ug/Kg		95	42 - 138
Naphthalene	1330	1161		ug/Kg		87	35 - 128
2-Methylnaphthalene	1330	1135		ug/Kg		85	36 - 126
Nitrobenzene	1330	1073		ug/Kg		80	32 - 129
Benzidine	1330	630.4		ug/Kg		47	12 - 112
Phenol	1.33	1.054		mg/Kg		79	34 - 127
N-Nitrosodimethylamine	1330	1168		ug/Kg		88	27 - 126
Atrazine	1330	1341		ug/Kg		101	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1330	887.4		ug/Kg		67	30 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*114*		*30 - 115*
2-Fluorophenol	*115*		*25 - 121*
2,4,6-Tribromophenol	*131*	*X*	*19 - 122*
Nitrobenzene-d5	*101*		*23 - 129*
Phenol-d5 (Surr)	*104*		*24 - 113*
p-Terphenyl-d14 (Surr)	*124*		*18 - 137*

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-40040/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40104
Prep Batch: 40040

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)			1330	1150		ug/Kg		86	20 - 157	2	30
1,2,4,5-Tetrachlorobenzene			1330	1271		ug/Kg		95	35 - 135	1	30
1-Methylnaphthalene			1330	1116		ug/Kg		84	38 - 127	0	30
bis (2-chloroisopropyl) ether			1330	790.0		ug/Kg		59	25 - 124	6	30
2,4,5-Trichlorophenol			1330	1311		ug/Kg		98	40 - 135	1	30
2,4,6-Trichlorophenol			1330	1292		ug/Kg		97	39 - 139	2	30
2,4-Dinitrotoluene			1330	1225		ug/Kg		92	48 - 131	1	30
Dinitrophenols			1330	1053		ug/Kg		79	19 - 131	5	40
2,4-Dichlorophenol			1330	1262		ug/Kg		95	36 - 135	3	30
2,6-Dinitrotoluene			1330	1237		ug/Kg		93	42 - 136	2	30
Dichlorobenzidine, 3,3'-			1330	1023		ug/Kg		77	35 - 134	2	40
4,6-Dinitro-2-methylphenol			1330	1342		ug/Kg		101	30 - 146	2	40
Acenaphthene			1330	1147		ug/Kg		86	37 - 131	0	30
Anthracene			1330	1209		ug/Kg		91	39 - 139	1	30
Acenaphthylene			1330	1169		ug/Kg		88	39 - 129	1	30
Benzo[a]anthracene			1330	1166		ug/Kg		87	44 - 135	1	30
Benzo[b]fluoranthene			1330	1166		ug/Kg		87	40 - 153	3	30
Benzo[k]fluoranthene			1330	1289		ug/Kg		97	33 - 156	0	30
Benzo[g,h,i]perylene			1330	1186		ug/Kg		89	40 - 153	2	30
Benzo[a]pyrene			1330	1207		ug/Kg		91	43 - 153	2	30
Di (2-ethylhexyl)phthalate			1330	1271		ug/Kg		95	46 - 145	3	30
Bis(2-chloroethyl)ether			1330	974.7		ug/Kg		73	33 - 127	3	30
Chrysene			1330	1191		ug/Kg		89	42 - 135	1	30
Dibutylphthalate			1330	1167		ug/Kg		87	43 - 142	0	30
Dibenz(a,h)anthracene			1330	1169		ug/Kg		88	41 - 155	0	30
Diethyl phthalate			1330	1067		ug/Kg		80	45 - 131	4	30
Dimethyl phthalate			1330	1154		ug/Kg		87	43 - 132	2	30
Fluoranthene			1330	1119		ug/Kg		84	41 - 138	2	30
Fluorene			1330	1205		ug/Kg		90	41 - 131	0	30
Hexachlorobenzene			1330	1291		ug/Kg		97	36 - 142	5	30
Hexachlorobutadiene			1330	1185		ug/Kg		89	35 - 129	1	30
Hexachlorocyclopentadiene			1330	1295		ug/Kg		97	16 - 106	0	30
Hexachloroethane			1330	1006		ug/Kg		75	36 - 121	4	30
Indeno[1,2,3-cd]pyrene			1330	1157		ug/Kg		87	39 - 154	1	30
Isophorone			1330	1066		ug/Kg		80	36 - 128	1	30
N-Nitrosodi-n-butylamine			1330	1119		ug/Kg		84	34 - 135	5	30
N-Nitrosodiethylamine			1330	1186		ug/Kg		89	36 - 127	0	30
N-Nitrosodiphenylamine			1330	1244		ug/Kg		93	27 - 155	2	30
N-Nitrosopyrrolidine			1330	1086		ug/Kg		81	38 - 136	9	30
Pentachlorobenzene			1330	1225		ug/Kg		92	38 - 136	0	30
Pentachlorophenol			1330	1008		ug/Kg		76	14 - 148	3	40
Phenanthrene			1330	1174		ug/Kg		88	37 - 139	3	30
Pyrene			1330	1331		ug/Kg		100	42 - 138	5	30
Naphthalene			1330	1145		ug/Kg		86	35 - 128	1	30
2-Methylnaphthalene			1330	1126		ug/Kg		84	36 - 126	1	30
Nitrobenzene			1330	1068		ug/Kg		80	32 - 129	0	30
Benzidine			1330	685.7		ug/Kg		51	12 - 112	8	40
Phenol			1.33	1.078		mg/Kg		81	34 - 127	2	40

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-40040/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40104 **Prep Batch: 40040**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodimethylamine			1330	1046		ug/Kg		78	27 - 126	11	30
Atrazine			1330	1328		ug/Kg		100	18 - 134	1	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	853.4		ug/Kg		64	30 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*115*		*30 - 115*
2-Fluorophenol	*109*		*25 - 121*
2,4,6-Tribromophenol	*131*	*X*	*19 - 122*
Nitrobenzene-d5	*99*		*23 - 129*
Phenol-d5 (Surr)	*106*		*24 - 113*
p-Terphenyl-d14 (Surr)	*124*		*18 - 137*

Lab Sample ID: 860-19931-1 MS **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40104 **Prep Batch: 40040**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	1330	1145		ug/Kg		86	20 - 157
1,2,4,5-Tetrachlorobenzene	16.5	U	1330	1242		ug/Kg		93	35 - 135
1-Methylnaphthalene	26.7	U	1330	1161		ug/Kg		87	38 - 127
bis (2-chloroisopropyl) ether	17.8	U	1330	807.4		ug/Kg		61	25 - 124
2,4,5-Trichlorophenol	19.0	U	1330	1343		ug/Kg		101	40 - 135
2,4,6-Trichlorophenol	15.7	U	1330	1342		ug/Kg		101	39 - 139
2,4-Dinitrotoluene	12.7	U	1330	1322		ug/Kg		99	48 - 131
Dinitrophenols	24.2	U	1330	986.4		ug/Kg		74	19 - 131
2,4-Dichlorophenol	17.4	U	1330	1248		ug/Kg		94	36 - 135
2,6-Dinitrotoluene	23.3	U	1330	1266		ug/Kg		95	42 - 136
Dichlorobenzidine, 3,3'-	15.4	U	1330	1185		ug/Kg		89	35 - 134
4,6-Dinitro-2-methylphenol	12.7	U	1330	1390		ug/Kg		104	30 - 146
Acenaphthene	15.5	U	1330	1178		ug/Kg		88	37 - 131
Anthracene	13.8	U	1330	1278		ug/Kg		96	39 - 139
Acenaphthylene	14.8	U	1330	1181		ug/Kg		89	39 - 129
Benzo[a]anthracene	14.1	U	1330	1216		ug/Kg		91	44 - 135
Benzo[b]fluoranthene	12.6	U	1330	1293		ug/Kg		97	40 - 153
Benzo[k]fluoranthene	19.3	U	1330	1351		ug/Kg		101	33 - 156
Benzo[g,h,i]perylene	15.3	U	1330	1191		ug/Kg		89	40 - 153
Benzo[a]pyrene	17.2	U	1330	1310		ug/Kg		98	43 - 153
Di (2-ethylhexyl)phthalate	167	U	1330	1317		ug/Kg		99	46 - 145
Bis(2-chloroethyl)ether	15.2	U	1330	972.0		ug/Kg		73	33 - 127
Chrysene	16.5	U	1330	1267		ug/Kg		95	42 - 135
Dibutylphthalate	16.0	U	1330	1275		ug/Kg		96	43 - 142
Dibenz(a,h)anthracene	12.7	U	1330	1204		ug/Kg		90	41 - 155
Diethyl phthalate	15.3	U	1330	1161		ug/Kg		87	45 - 131
Dimethyl phthalate	15.9	U	1330	1196		ug/Kg		90	43 - 132
Fluoranthene	14.7	U	1330	1313		ug/Kg		99	41 - 138
Fluorene	13.8	U	1330	1255		ug/Kg		94	41 - 131
Hexachlorobenzene	16.2	U	1330	1310		ug/Kg		98	36 - 142

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-19931-1 MS **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40104 **Prep Batch: 40040**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	13.8	U	1330	1145		ug/Kg		86	35 - 129
Hexachlorocyclopentadiene	15.2	U	1330	1084		ug/Kg		81	16 - 106
Hexachloroethane	17.3	U	1330	987.7		ug/Kg		74	36 - 121
Indeno[1,2,3-cd]pyrene	13.4	U	1330	1203		ug/Kg		90	39 - 154
Isophorone	14.5	U	1330	1039		ug/Kg		78	36 - 128
N-Nitrosodi-n-butylamine	25.2	U	1330	1100		ug/Kg		83	34 - 135
N-Nitrosodiethylamine	21.9	U	1330	1151		ug/Kg		86	36 - 127
N-Nitrosodiphenylamine	18.6	U	1330	1315		ug/Kg		99	27 - 155
N-Nitrosopyrrolidine	14.1	U	1330	1114		ug/Kg		84	38 - 136
Pentachlorobenzene	15.9	U	1330	1246		ug/Kg		94	38 - 136
Pentachlorophenol	12.1	U	1330	1151		ug/Kg		86	14 - 148
Phenanthrene	16.6	U	1330	1231		ug/Kg		92	37 - 139
Pyrene	14.6	U	1330	1340		ug/Kg		101	42 - 138
Naphthalene	15.6	U	1330	1115		ug/Kg		84	35 - 128
2-Methylnaphthalene	45.1	U	1330	1145		ug/Kg		86	36 - 126
Nitrobenzene	18.5	U	1330	1043		ug/Kg		78	32 - 129
Benzidine	12.1	U	1330	832.7		ug/Kg		63	12 - 112
Phenol	0.0150	U	1.33	1.084		mg/Kg		81	34 - 127
N-Nitrosodimethylamine	16.7	U	1330	1017		ug/Kg		76	27 - 126
Atrazine	16.5	U	1330	1234		ug/Kg		93	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	333	U	1330	930.0		ug/Kg		70	

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*113*		*30 - 115*
2-Fluorophenol	*108*		*25 - 121*
2,4,6-Tribromophenol	*142*	*X*	*19 - 122*
Nitrobenzene-d5	*99*		*23 - 129*
Phenol-d5 (Surr)	*108*		*24 - 113*
p-Terphenyl-d14 (Surr)	*130*		*18 - 137*

Lab Sample ID: 860-19931-1 MSD **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40104 **Prep Batch: 40040**

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	1038		ug/Kg		78	20 - 157	10	30
1,2,4,5-Tetrachlorobenzene	16.5	U	1330	1158		ug/Kg		87	35 - 135	7	30
1-Methylnaphthalene	26.7	U	1330	954.1		ug/Kg		72	38 - 127	20	30
bis (2-chloroisopropyl) ether	17.8	U	1330	678.9		ug/Kg		51	25 - 124	17	30
2,4,5-Trichlorophenol	19.0	U	1330	1218		ug/Kg		91	40 - 135	10	30
2,4,6-Trichlorophenol	15.7	U	1330	1185		ug/Kg		89	39 - 139	12	30
2,4-Dinitrotoluene	12.7	U	1330	1104		ug/Kg		83	48 - 131	18	30
Dinitrophenols	24.2	U	1330	824.1		ug/Kg		62	19 - 131	18	40
2,4-Dichlorophenol	17.4	U	1330	1040		ug/Kg		78	36 - 135	18	30
2,6-Dinitrotoluene	23.3	U	1330	1095		ug/Kg		82	42 - 136	14	30
Dichlorobenzidine, 3,3'-	15.4	U	1330	1074		ug/Kg		81	35 - 134	10	40
4,6-Dinitro-2-methylphenol	12.7	U	1330	1167		ug/Kg		88	30 - 146	17	40

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-19931-1 MSD **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40104 **Prep Batch: 40040**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	15.5	U	1330	1058		ug/Kg		79	37 - 131	11	30
Anthracene	13.8	U	1330	1136		ug/Kg		85	39 - 139	12	30
Acenaphthylene	14.8	U	1330	1071		ug/Kg		80	39 - 129	10	30
Benzo[a]anthracene	14.1	U	1330	1060		ug/Kg		80	44 - 135	14	30
Benzo[b]fluoranthene	12.6	U	1330	1048		ug/Kg		79	40 - 153	21	30
Benzo[k]fluoranthene	19.3	U	1330	1142		ug/Kg		86	33 - 156	17	30
Benzo[g,h,i]perylene	15.3	U	1330	1168		ug/Kg		88	40 - 153	2	30
Benzo[a]pyrene	17.2	U	1330	1113		ug/Kg		83	43 - 153	16	30
Di (2-ethylhexyl)phthalate	167	U	1330	1125		ug/Kg		84	46 - 145	16	30
Bis(2-chloroethyl)ether	15.2	U	1330	828.8		ug/Kg		62	33 - 127	16	30
Chrysene	16.5	U	1330	1085		ug/Kg		81	42 - 135	15	30
Dibutylphthalate	16.0	U	1330	1067		ug/Kg		80	43 - 142	18	30
Dibenz(a,h)anthracene	12.7	U	1330	1143		ug/Kg		86	41 - 155	5	30
Diethyl phthalate	15.3	U	1330	1016		ug/Kg		76	45 - 131	13	30
Dimethyl phthalate	15.9	U	1330	1063		ug/Kg		80	43 - 132	12	30
Fluoranthene	14.7	U	1330	1085		ug/Kg		81	41 - 138	19	30
Fluorene	13.8	U	1330	1083		ug/Kg		81	41 - 131	15	30
Hexachlorobenzene	16.2	U	1330	1145		ug/Kg		86	36 - 142	13	30
Hexachlorobutadiene	13.8	U	1330	1017		ug/Kg		76	35 - 129	12	30
Hexachlorocyclopentadiene	15.2	U	1330	976.7		ug/Kg		73	16 - 106	10	30
Hexachloroethane	17.3	U	1330	851.6		ug/Kg		64	36 - 121	15	30
Indeno[1,2,3-cd]pyrene	13.4	U	1330	1134		ug/Kg		85	39 - 154	6	30
Isophorone	14.5	U	1330	870.1		ug/Kg		65	36 - 128	18	30
N-Nitrosodi-n-butylamine	25.2	U	1330	902.0		ug/Kg		68	34 - 135	20	30
N-Nitrosodiethylamine	21.9	U	1330	965.2		ug/Kg		72	36 - 127	18	30
N-Nitrosodiphenylamine	18.6	U	1330	1150		ug/Kg		86	27 - 155	13	30
N-Nitrosopyrrolidine	14.1	U	1330	859.2		ug/Kg		64	38 - 136	26	30
Pentachlorobenzene	15.9	U	1330	1115		ug/Kg		84	38 - 136	11	30
Pentachlorophenol	12.1	U	1330	956.3		ug/Kg		72	14 - 148	18	40
Phenanthrene	16.6	U	1330	1087		ug/Kg		82	37 - 139	12	30
Pyrene	14.6	U	1330	1169		ug/Kg		88	42 - 138	14	30
Naphthalene	15.6	U	1330	976.6		ug/Kg		73	35 - 128	13	30
2-Methylnaphthalene	45.1	U	1330	949.9		ug/Kg		71	36 - 126	19	30
Nitrobenzene	18.5	U	1330	912.1		ug/Kg		68	32 - 129	13	30
Benzidine	12.1	U	1330	785.3		ug/Kg		59	12 - 112	6	40
Phenol	0.0150	U	1.33	0.8758		mg/Kg		66	34 - 127	21	40
N-Nitrosodimethylamine	16.7	U	1330	858.9		ug/Kg		64	27 - 126	17	30
Atrazine	16.5	U	1330	1106		ug/Kg		83	18 - 134	11	40
Thiophene, tetrahydro-, 1,1-dioxide	333	U	1330	778.6		ug/Kg		58		18	

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*105*		*30 - 115*
2-Fluorophenol	*90*		*25 - 121*
2,4,6-Tribromophenol	*120*		*19 - 122*
Nitrobenzene-d5	*85*		*23 - 129*
Phenol-d5 (Surr)	*87*		*24 - 113*
p-Terphenyl-d14 (Surr)	*109*		*18 - 137*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-39790/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Diesel Range Organics (Over C10-C28) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Oil Range Organics (Over C28-C36) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane - RA	*105*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*
o-Terphenyl (Surr) - RA	*97*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*

Lab Sample ID: LCS 860-39790/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10 - RA	994	1024		mg/Kg		103	70 - 135
Diesel Range Organics (Over C10-C28) - RA	996	974.9		mg/Kg		98	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane - RA	*107*		*65 - 130*
o-Terphenyl (Surr) - RA	*100*		*65 - 130*

Lab Sample ID: LCSD 860-39790/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10 - RA	994	1028		mg/Kg		103	70 - 135	0	35
Diesel Range Organics (Over C10-C28) - RA	996	1002		mg/Kg		101	70 - 135	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane - RA	*110*		*65 - 130*
o-Terphenyl (Surr) - RA	*103*		*65 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-39480/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39536 **Prep Batch: 39480**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/29/22 11:03	01/31/22 10:45	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-39480/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39536 **Prep Batch: 39480**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/29/22 11:03	01/31/22 10:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*35 - 135*	*01/29/22 11:03*	*01/31/22 10:45*	*1*
DCB Decachlorobiphenyl (Surr)	*108*		*25 - 143*	*01/29/22 11:03*	*01/31/22 10:45*	*1*

Lab Sample ID: LCS 860-39480/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39536 **Prep Batch: 39480**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DDT			16.7	20.83		ug/Kg		125	13 - 192		
Aldrin			16.7	20.27		ug/Kg		122	30 - 152		
Hexachlorocyclohexane, alpha-			16.7	19.40		ug/Kg		116	29 - 160		
Hexachlorocyclohexane, beta-			16.7	21.37		ug/Kg		128	30 - 155		
Hexachlorocyclohexane, delta-			16.7	19.40		ug/Kg		116	20 - 161		
Dieldrin			16.7	21.61		ug/Kg		130	33 - 153		
Endosulfan I			16.7	20.94		ug/Kg		126	30 - 151		
Endosulfan II			16.7	19.27		ug/Kg		116	27 - 153		
Endosulfan sulfate			16.7	20.37		ug/Kg		122	15 - 170		
Endrin			16.7	21.93		ug/Kg		132	25 - 162		
Endrin aldehyde			16.7	20.13	*	ug/Kg		121	49 - 117		
Hexachlorocyclohexane, gamma-			16.7	20.13		ug/Kg		121	30 - 158		
Heptachlor			16.7	20.69		ug/Kg		124	29 - 163		
Heptachlor epoxide			16.7	20.38		ug/Kg		122	30 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*101*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*123*		*25 - 143*

Lab Sample ID: LCSD 860-39480/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39536 **Prep Batch: 39480**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT			16.7	20.06		ug/Kg		120	13 - 192	4	25

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-39480/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39536 **Prep Batch: 39480**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	16.7	20.31		ug/Kg		122	30 - 152	0	25
Hexachlorocyclohexane, alpha-	16.7	19.67		ug/Kg		118	29 - 160	1	25
Hexachlorocyclohexane, beta-	16.7	20.97		ug/Kg		126	30 - 155	2	25
Hexachlorocyclohexane, delta-	16.7	19.02		ug/Kg		114	20 - 161	2	25
Dieldrin	16.7	21.09		ug/Kg		127	33 - 153	2	25
Endosulfan I	16.7	20.45		ug/Kg		123	30 - 151	2	25
Endosulfan II	16.7	18.59		ug/Kg		112	27 - 153	4	25
Endosulfan sulfate	16.7	19.57		ug/Kg		117	15 - 170	4	25
Endrin	16.7	21.16		ug/Kg		127	25 - 162	4	25
Endrin aldehyde	16.7	19.32		ug/Kg		116	49 - 117	4	25
Hexachlorocyclohexane, gamma-	16.7	20.03		ug/Kg		120	30 - 158	0	25
Heptachlor	16.7	20.86		ug/Kg		125	29 - 163	1	25
Heptachlor epoxide	16.7	19.96		ug/Kg		120	30 - 150	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*100*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*112*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-39480/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/29/22 11:03	01/31/22 17:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*35 - 140*	*01/29/22 11:03*	*01/31/22 17:36*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 142*	*01/29/22 11:03*	*01/31/22 17:36*	*1*

Lab Sample ID: LCS 860-39480/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	0.167	0.1562		mg/Kg		94	27 - 121
Aroclor 1260	0.167	0.1483		mg/Kg		89	27 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*84*		*35 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-39480/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	83		37 - 142

Lab Sample ID: LCSD 860-39480/5-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1508		mg/Kg		90	27 - 121	4	20
Aroclor 1260			0.167	0.1483		mg/Kg		89	27 - 139	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	79		35 - 140
DCB Decachlorobiphenyl (Surr)	80		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565272/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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		02/05/22 11:25	02/10/22 06:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 06:07	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/05/22 11:25	02/10/22 06:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	02/05/22 11:25	02/10/22 06:07	1

Lab Sample ID: LCS 280-565272/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.9312		mg/Kg		93	80 - 120		
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9739		mg/Kg		97	80 - 124		
2,4,6-Trinitrotoluene			1.00	0.9953		mg/Kg		100	80 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	99		83 - 122

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: LCS 860-3971/2-A
Matrix: Solid
Analysis Batch: 39718

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	99.5	99.43		mg/Kg		100	80 - 120
Nitrate as N	99.5	99.56		mg/Kg		100	80 - 120
Fluoride	99.5	100.2		mg/Kg		101	80 - 120
Nitrite as N	49.8	46.63		mg/Kg		94	80 - 120
Nitrate Nitrite as N	149	146.2		mg/Kg		98	80 - 120
Sulfate	99.5	99.07		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 860-3971/3-A
Matrix: Solid
Analysis Batch: 39718

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3971

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	99.5	99.88		mg/Kg		100	80 - 120	0	20
Nitrate as N	99.5	99.51		mg/Kg		100	80 - 120	0	20
Fluoride	99.5	100.3		mg/Kg		101	80 - 120	0	20
Nitrite as N	49.8	46.64		mg/Kg		94	80 - 120	0	20
Nitrate Nitrite as N	149	146.2		mg/Kg		98	80 - 120	0	20
Sulfate	99.5	99.07		mg/Kg		100	80 - 120	0	20

Lab Sample ID: MB 860-39863/1-A
Matrix: Solid
Analysis Batch: 39718

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39863

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Nitrite as N	0.0500	U	1.00	0.0500	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Nitrate Nitrite as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		02/01/22 17:11	02/02/22 09:59	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12
Matrix: Solid
Analysis Batch: 564802

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

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.04711	J	ug/L		94	70 - 130

Lab Sample ID: MB 280-565161/1-A
Matrix: Solid
Analysis Batch: 565540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:01	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS (Continued)

Lab Sample ID: LCS 280-565161/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565540 **Prep Batch: 565161**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5047		ug/Kg		101	80 - 120

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 556129

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.500	0.490	U	ug/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4417	J	ug/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		95	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

Lab Sample ID: MB 280-565681/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566232 **Prep Batch: 565681**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/10/22 11:04	02/16/22 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/10/22 11:04*	*02/16/22 11:21*	*1*
13C8 PFOS	*107*		*70 - 130*	*02/10/22 11:04*	*02/16/22 11:21*	*1*

Lab Sample ID: LCS 280-565681/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566232 **Prep Batch: 565681**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	20.31		ug/Kg		102	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	18.45		ug/Kg		101	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.74		ug/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*108*		*70 - 130*

QC Sample Results

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

Job ID: 860-19931-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-40114/1-A
Matrix: Solid
Analysis Batch: 40171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40114

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/03/22 09:32	02/03/22 13:00	1

Lab Sample ID: LCS 860-40114/2-A
Matrix: Solid
Analysis Batch: 40171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	5.00	4.818		mg/Kg		96	80 - 120
Arsenic	10.0	9.424		mg/Kg		94	80 - 120
Barium	10.0	9.503		mg/Kg		95	80 - 120
Beryllium	10.0	9.650		mg/Kg		96	80 - 120
Cadmium	10.0	9.511		mg/Kg		95	80 - 120
Chromium	10.0	9.366		mg/Kg		94	80 - 120
Copper	10.0	9.347		mg/Kg		93	80 - 120
Iron	50.0	46.41		mg/Kg		93	80 - 120
Manganese	10.0	9.685		mg/Kg		97	80 - 120
Lead	10.0	9.308		mg/Kg		93	80 - 120
Antimony	10.0	9.708		mg/Kg		97	80 - 120
Selenium	10.0	9.491		mg/Kg		95	80 - 120
Thallium	10.0	9.419		mg/Kg		94	80 - 120
Uranium	2.50	2.341		mg/Kg		94	80 - 120
Zinc	10.0	10.41		mg/Kg		104	80 - 120

Lab Sample ID: LCSD 860-40114/3-A
Matrix: Solid
Analysis Batch: 40171

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40114

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.90	4.645		mg/Kg		95	80 - 120	4	20
Arsenic	9.80	9.222		mg/Kg		94	80 - 120	2	20
Barium	9.80	9.259		mg/Kg		94	80 - 120	3	20
Beryllium	9.80	9.570		mg/Kg		98	80 - 120	1	20
Cadmium	9.80	9.279		mg/Kg		95	80 - 120	2	20
Chromium	9.80	9.111		mg/Kg		93	80 - 120	3	20
Copper	9.80	8.911		mg/Kg		91	80 - 120	5	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-40114/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40171
Prep Batch: 40114

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron			49.0	45.01		mg/Kg		92	80 - 120	3	20
Manganese			9.80	9.456		mg/Kg		96	80 - 120	2	20
Lead			9.80	9.072		mg/Kg		93	80 - 120	3	20
Antimony			9.80	9.488		mg/Kg		97	80 - 120	2	20
Selenium			9.80	9.306		mg/Kg		95	80 - 120	2	20
Thallium			9.80	9.182		mg/Kg		94	80 - 120	3	20
Uranium			2.45	2.324		mg/Kg		95	80 - 120	1	20
Zinc			9.80	9.952		mg/Kg		102	80 - 120	5	20

Lab Sample ID: 860-19931-1 MS
Client Sample ID: Cell20-Square 66-S-3-4-220127
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40171
Prep Batch: 40114

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.142	U	4.55	4.578		mg/Kg		101	75 - 125
Arsenic	2.34	J	9.09	10.88		mg/Kg		94	75 - 125
Barium	138		9.09	144.9	4	mg/Kg		72	75 - 125
Beryllium	0.195	J	9.09	8.990		mg/Kg		97	75 - 125
Cadmium	0.104	U	9.09	8.506		mg/Kg		94	75 - 125
Chromium	4.80		9.09	13.25		mg/Kg		93	75 - 125
Copper	2.13	J	9.09	10.37		mg/Kg		91	75 - 125
Iron	3370		45.5	3384	4	mg/Kg		40	75 - 125
Manganese	39.9		9.09	47.73	4	mg/Kg		86	75 - 125
Lead	2.09		9.09	10.51		mg/Kg		93	75 - 125
Antimony	2.38		9.09	10.61		mg/Kg		91	75 - 125
Selenium	0.443	U	9.09	8.662		mg/Kg		95	75 - 125
Thallium	0.213	U	9.09	8.587		mg/Kg		94	75 - 125
Uranium	0.322	J	2.27	2.495		mg/Kg		96	75 - 125
Zinc	10.2		9.09	18.49		mg/Kg		91	75 - 125

Lab Sample ID: 860-19931-1 MSD
Client Sample ID: Cell20-Square 66-S-3-4-220127
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40171
Prep Batch: 40114

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.142	U	4.24	4.267		mg/Kg		101	75 - 125	7	20
Arsenic	2.34	J	8.47	10.18		mg/Kg		93	75 - 125	7	20
Barium	138		8.47	134.4	4	mg/Kg		-46	75 - 125	7	20
Beryllium	0.195	J	8.47	8.252		mg/Kg		95	75 - 125	9	20
Cadmium	0.104	U	8.47	7.960		mg/Kg		94	75 - 125	7	20
Chromium	4.80		8.47	12.48		mg/Kg		91	75 - 125	6	20
Copper	2.13	J	8.47	9.736		mg/Kg		90	75 - 125	6	20
Iron	3370		42.4	3182	4	mg/Kg		-435	75 - 125	6	20
Manganese	39.9		8.47	44.43	4	mg/Kg		54	75 - 125	7	20
Lead	2.09		8.47	9.850		mg/Kg		92	75 - 125	6	20
Antimony	2.38		8.47	9.494		mg/Kg		84	75 - 125	11	20
Selenium	0.443	U	8.47	7.990		mg/Kg		94	75 - 125	8	20
Thallium	0.213	U	8.47	8.175		mg/Kg		96	75 - 125	5	20
Uranium	0.322	J	2.12	2.292		mg/Kg		93	75 - 125	8	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-19931-1 MSD — **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40171 — **Prep Batch: 40114**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	10.2		8.47	17.18		mg/Kg		83	75 - 125	7	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39690/10-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39840 — **Prep Batch: 39690**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00377	U	0.0196	0.00377	mg/Kg		02/01/22 08:30	02/01/22 12:23	1

Lab Sample ID: LCS 860-39690/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39840 — **Prep Batch: 39690**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.192	0.1814		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 860-39690/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39840 — **Prep Batch: 39690**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.192	0.1813		mg/Kg		94	80 - 120	0	20

Lab Sample ID: 860-19931-1 MS — **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39840 — **Prep Batch: 39690**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00580	J	0.192	0.1729		mg/Kg		87	75 - 125

Lab Sample ID: 860-19931-1 MSD — **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39840 — **Prep Batch: 39690**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00580	J	0.192	0.1732		mg/Kg		87	75 - 125	0	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40886/22-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/09/22 15:50	02/09/22 17:14	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 860-40886/23-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			100	102.7		ug/Kg		103	90 - 110		

Lab Sample ID: LLCS 860-40886/24-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			50.0	52.26		ug/Kg		105	90 - 110		

Lab Sample ID: 860-19931-1 MS — **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	44.7	J	2400	1214	N1	ug/Kg		49	90 - 110		

Lab Sample ID: 860-19931-1 MSD — **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	44.7	J	2410	1215	N1	ug/Kg		49	90 - 110	0	20

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-42380/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43154 — **Prep Batch: 42380**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/22/22 10:19	02/24/22 11:23	1

Lab Sample ID: LCS 860-42380/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43154 — **Prep Batch: 42380**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenols, Total			1.00	1.120	*	mg/Kg		112	90 - 110		

Lab Sample ID: LCSD 860-42380/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43154 — **Prep Batch: 42380**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total			1.00	1.040		mg/Kg		104	90 - 110	7	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193206/1 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/15/22 15:10	1

Lab Sample ID: LCS 560-193206/2 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	2250	2124		mg/L		94	90 - 110

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	5035	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	5035	

Analysis Batch: 40051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8260D SIM	39768
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8260D SIM	39768
MB 860-40051/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-40051/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-40051/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8260B	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8260B	
MB 560-192708/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192708/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192708/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	3550C	
MB 860-39525/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39525/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39525/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 39561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-39525/1-A	Method Blank	Total/NA	Solid	8270D	39525
LCS 860-39525/2-A	Lab Control Sample	Total/NA	Solid	8270D	39525
LCSD 860-39525/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	39525

Prep Batch: 40040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	3550C	
MB 860-40040/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-40040/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-40040/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-19931-1 MS	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	3550C	
860-19931-1 MSD	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	3550C	

Analysis Batch: 40104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8270D	40040
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8270D	39525
MB 860-40040/1-A	Method Blank	Total/NA	Solid	8270D	40040
LCS 860-40040/2-A	Lab Control Sample	Total/NA	Solid	8270D	40040
LCSD 860-40040/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	40040
860-19931-1 MS	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8270D	40040

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS Semi VOA (Continued)

Analysis Batch: 40104 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1 MSD	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8270D	40040

Prep Batch: 566137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	3546	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	3546	
MB 400-566137/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 566465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8270D	566137
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8270D	566137
MB 400-566137/1-A	Method Blank	Total/NA	Solid	8270D	566137
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	8270D	566137

GC Semi VOA

Prep Batch: 39480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	3550C	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	3550C	
MB 860-39480/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39480/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-39480/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39480/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-39480/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 39536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8081B	39480
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8081B	39480
MB 860-39480/1-A	Method Blank	Total/NA	Solid	8081B	39480
LCS 860-39480/2-A	Lab Control Sample	Total/NA	Solid	8081B	39480
LCSD 860-39480/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	39480

Analysis Batch: 39558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8082A	39480
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8082A	39480
MB 860-39480/1-A	Method Blank	Total/NA	Solid	8082A	39480
LCS 860-39480/4-A	Lab Control Sample	Total/NA	Solid	8082A	39480
LCSD 860-39480/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	39480

Prep Batch: 39790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8015NM Prep	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8015NM Prep	
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Analysis Batch: 39915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8015B NM	39790
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8015B NM	39790
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015B NM	39790
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015B NM	39790
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39790

HPLC/IC

Prep Batch: 3971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-3971/2-A	Lab Control Sample	Total/NA	Solid	MEHL Prep	
LCSD 860-3971/3-A	Lab Control Sample Dup	Total/NA	Solid	MEHL Prep	

Analysis Batch: 39718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	9056A	39863
MB 860-39863/1-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-3971/2-A	Lab Control Sample	Total/NA	Solid	9056A	3971
LCSD 860-3971/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	3971

Analysis Batch: 39719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	9056A	39863
MB 860-39863/1-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-3971/2-A	Lab Control Sample	Total/NA	Solid	9056A	3971
LCSD 860-3971/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	3971

Prep Batch: 39863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	300_Prep	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	300_Prep	
MB 860-39863/1-A	Method Blank	Total/NA	Solid	300_Prep	

Drying Batch: 564725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	Prep/Air Dry	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8330B	564725
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8330B	564725
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 565637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8330B	565272
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8330B	565272

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Analysis Batch: 565637 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	565272
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	565272

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	6860	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	6860	
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	6860	565161
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	6860	565161
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	565161
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	565161

Prep Batch: 565681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	PFC leach	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	PFC leach	
MB 280-565681/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 566232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	DV-LC-0012	565681
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	DV-LC-0012	565681
MB 280-565681/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565681
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565681

Metals

Prep Batch: 39690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	7471A	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	7471A	
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-19931-1 MS	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	7471A	
860-19931-1 MSD	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	7471A	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Analysis Batch: 39840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	7471A	39690
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	7471A	39690
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	39690
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	39690
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39690
860-19931-1 MS	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	7471A	39690
860-19931-1 MSD	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	7471A	39690

Prep Batch: 40114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	3051A	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	3051A	
MB 860-40114/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-40114/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-40114/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
860-19931-1 MS	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	3051A	
860-19931-1 MSD	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	3051A	

Analysis Batch: 40171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	6020A	40114
MB 860-40114/1-A	Method Blank	Total/NA	Solid	6020A	40114
LCS 860-40114/2-A	Lab Control Sample	Total/NA	Solid	6020A	40114
LCSD 860-40114/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	40114
860-19931-1 MS	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	6020A	40114
860-19931-1 MSD	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	6020A	40114

Analysis Batch: 40235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	6020A	40114

General Chemistry

Analysis Batch: 39955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	Moisture - 2540	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	Moisture - 2540	
MB 860-39955/1	Method Blank	Total/NA	Solid	Moisture - 2540	
860-19931-2 DU	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	Moisture - 2540	

Leach Batch: 40845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Soluble	Solid	DI Leach	
860-19931-2	Cell20-Square 40-S-3-4-220127	Soluble	Solid	DI Leach	

Analysis Batch: 40861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Soluble	Solid	9045D	40845
860-19931-2	Cell20-Square 40-S-3-4-220127	Soluble	Solid	9045D	40845

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Prep Batch: 40886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	9012A	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	9012A	
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	
860-19931-1 MS	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	9012A	
860-19931-1 MSD	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	9012A	

Analysis Batch: 40920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	9012A	40886
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	9012A	40886
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	40886
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	40886
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	40886
860-19931-1 MS	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	9012A	40886
860-19931-1 MSD	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	9012A	40886

Prep Batch: 42380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	Distill/Phenol	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	Distill/Phenol	
MB 860-42380/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-42380/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-42380/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 43154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	9066	42380
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	9066	42380
MB 860-42380/1-A	Method Blank	Total/NA	Solid	9066	42380
LCS 860-42380/2-A	Lab Control Sample	Total/NA	Solid	9066	42380
LCSD 860-42380/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	42380

Leach Batch: 193204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	7 Day Leach	Solid	335.521	
860-19931-2	Cell20-Square 40-S-3-4-220127	7 Day Leach	Solid	335.521	

Analysis Batch: 193206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	7 Day Leach	Solid	SM 2540C	193204
860-19931-2	Cell20-Square 40-S-3-4-220127	7 Day Leach	Solid	SM 2540C	193204
MB 560-193206/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193206/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	Dry and Grind	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Rad (Continued)

Leach Batch: 549041 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	Dry and Grind	

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	Fill_Geo-21	549041
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	Fill_Geo-21	549041

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 66-S-3-4-220127 **Lab Sample ID: 860-19931-1**
Date Collected: 01/27/22 10:30 **Matrix: Solid**
Date Received: 01/28/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.38 g	5 mL	192708	01/31/22 18:22	RJD	XEN CC
Total/NA	Prep	5035			5.01 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 02:15	A1S	XEN STF
Total/NA	Prep	3550C			30.02 g	1 mL	40040	02/02/22 16:54	JN	XEN STF
Total/NA	Analysis	8270D		1			40104	02/03/22 16:40	PXS	XEN STF
Total/NA	Prep	3546			15.14 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 20:02	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.1 g	10 mL	39790	02/02/22 10:33	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39915	02/02/22 21:18	T1S	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8081B		1			39536	01/31/22 14:06	WP	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8082A		1			39558	01/31/22 19:28	JAL	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.55 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 13:23	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.06 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	39718	02/02/22 02:56	WP	XEN STF
Total/NA	Prep	300_Prep			5.06 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	39719	02/02/22 02:56	WP	XEN STF
Total/NA	Prep	6860			10.1 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:44	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.78 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 13:33	AGCM	TAL DEN
Total/NA	Prep	3051A			.56 g	50 mL	40114	02/03/22 09:33	PB	XEN STF
Total/NA	Analysis	6020A		10			40171	02/03/22 13:09	DCL	XEN STF
Total/NA	Prep	7471A			.50 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:27	SHZ	XEN STF
Total/NA	Prep	9012A			0.4949 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:21	CM1	XEN STF
Soluble	Leach	DI Leach			20.02 g	20 mL	40845	02/09/22 12:58	TL	XEN STF
Soluble	Analysis	9045D		1	20.02 g	20 mL	40861	02/09/22 14:16	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42380	02/22/22 10:19	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	43154	02/24/22 11:47	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			309.1000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552697	02/28/22 11:00	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 40-S-3-4-220127 **Lab Sample ID: 860-19931-2**
Date Collected: 01/27/22 10:55 **Matrix: Solid**
Date Received: 01/28/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.36 g	5 mL	192708	01/31/22 18:48	RJD	XEN CC
Total/NA	Prep	5035			4.96 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 02:37	A1S	XEN STF
Total/NA	Prep	3550C			30.15 g	1 mL	39525	01/31/22 07:24	TH	XEN STF
Total/NA	Analysis	8270D		1			40104	02/03/22 17:59	PXS	XEN STF
Total/NA	Prep	3546			15.43 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 20:28	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39790	02/02/22 10:33	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39915	02/02/22 21:38	T1S	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8081B		1			39536	01/31/22 14:22	WP	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8082A		1			39558	01/31/22 19:37	JAL	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.23 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 13:46	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.08 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	39718	02/02/22 03:08	WP	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	39719	02/02/22 03:08	WP	XEN STF
Total/NA	Prep	6860			10.68 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:49	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.38 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 13:42	AGCM	TAL DEN
Total/NA	Prep	3051A			.57 g	50 mL	40114	02/03/22 09:33	PB	XEN STF
Total/NA	Analysis	6020A		10			40235	02/03/22 16:51	DCL	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:37	SHZ	XEN STF
Total/NA	Prep	9012A			0.5016 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:25	CM1	XEN STF
Soluble	Leach	DI Leach			20.04 g	20 mL	40845	02/09/22 12:58	TL	XEN STF
Soluble	Analysis	9045D		1	20.04 g	20 mL	40861	02/09/22 14:16	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42380	02/22/22 10:19	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	43154	02/24/22 12:00	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			292.1000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552703	02/28/22 11:01	JCB	TAL SL

Lab Chronicle

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

Job ID: 860-19931-1

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

Laboratory: Eurofins St. Louis

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19931-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19931-1	Cell20-Square 66-S-3-4-220127	Solid	01/27/22 10:30	01/28/22 10:19
860-19931-2	Cell20-Square 40-S-3-4-220127	Solid	01/27/22 10:55	01/28/22 10:19

Page 610 of 959

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Tony Rodriguez	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-559-5994	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1-1
Company: ARCADIS U.S. Inc.				Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Standard			
State, Zip: CO, 80129-2377	PO #:			
Phone: 303-710-7537(Tel)	WO #:			
Email: Alison.Schaffer@arcadis.com	Project #: 86002103			
Project Name: Chevron Jal Land Farm Soils	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B- Volatiles	8270C- Semivolatiles/ 8081 Pesticides/ 8082 PCB	6860 Perchlorate-Ddenver- soil jar 4 oz	6330B Denver soil jar 4 oz	PFC Denver- plastic 16 oz jar	8270D_AgChem-Pensacola soil jar 4 oz	2540C_Calcd Local Method/ Moisture/ pH 9045	8015B_GRO	8015_DRO/ORO	GA-01_R_ra- Rad 228/228- St Louis- 2 plastic jars 16	9056- Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate; Fluoride	6020/7471- St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
Cell20-Square 66-5-3-4-220127	1/27/22	1030	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
Cell20-Square 40-5-3-4-220127	1/27/22	1055	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

860-19931 Chain of Custody

Temp: 2.5 IR ID HOU-323
C/F +0.2
Corrected Temp: 2.7

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

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

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Tony Rodriguez	1/27/22 1700	Arcadis			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				Linda	1/28/22 10:19	
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver 01/16/2019

Received by OCD: 9/12/2022 9:41:21 AM

Released to Imaging: 10/28/2022 10:00:56 AM

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9774.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19931-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/16/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell20-Square 66-S-3-4-220127 (860-19931-1)	1/27/22	10:30 Central		Solid			X	1	
Cell20-Square 40-S-3-4-220127 (860-19931-2)	1/27/22	10:55 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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Linda	1/28/22		FED EX		
2					1/31/22 0905	ETA SLC
3	FED EX					

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

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9773.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19931-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/15/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell20-Square 66-S-3-4-220127 (860-19931-1)	1/27/22	10:30 Central		Solid			X	X	X	2	
Cell20-Square 40-S-3-4-220127 (860-19931-2)	1/27/22	10:55 Central		Solid			X	X	X	2	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance 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:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	1/28/22			01/29/2022 KB	ESTHOUSN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.6 IR 3-0.2

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Houston
oriar Dr
, TX 77477
e: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9772.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-19931-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 2/16/2022			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell20-Square 66-S-3-4-220127 (860-19931-1)	1/27/22	10:30 Central		Solid			X	1	
Cell20-Square 40-S-3-4-220127 (860-19931-2)	1/27/22	10:55 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 out 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 complicance 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: 1/27	Company	Received by:	Date/Time: 1-27-22 0839	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: 4.6 IR

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19931-1

Login Number: 19931 **List Source: Eurofins Houston**
List Number: 1
Creator: Torrez, Lisandra

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	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19931-1

Login Number: 19931 **List Source: Eurofins Houston**
List Number: 2
Creator: Torrez, Lisandra

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19931-1

Login Number: 19931 **List Source: Eurofins Corpus Christi**
List Number: 4 **List Creation: 01/29/22 11:19 AM**
Creator: Forrester, Caitlyn D

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.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19931-1

Login Number: 19931 **List Source: Eurofins Denver**
List Number: 5 **List Creation: 01/29/22 11:26 AM**
Creator: Lee, Jerry

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	
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").	True	
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: 860-19931-1

Login Number: 19931 **List Source: Eurofins Pensacola**
List Number: 3 **List Creation: 01/29/22 10:39 AM**
Creator: Whitley, Adrian

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	4.6°C IR6
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: 860-19931-1

Login Number: 19931 **List Source: Eurofins St. Louis**
List Number: 6 **List Creation: 02/01/22 12:03 PM**
Creator: Johnson, Autumn R

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	
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.	N/A	

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19938-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
2/28/2022 6:03:48 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 860-19938-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS 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/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the 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.

GC/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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.

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.

LCMS

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.

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
*	LCS or LCSD is outside acceptance limits.
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.
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.
¤	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)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19938-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19938-1

Receipt
The samples were received on 1/28/2022 10:19 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

GC/MS VOA
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_AgChem: The following sample was diluted due to the nature of the sample matrix: Cell21-Square 146-S-3-4-220127 (860-19938-1). Elevated reporting limits (RLs) are provided.

Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-39525 and analytical batch 860-39561 recovered outside control limits for the following analyte: Atrazine.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: Cell21-Square 146-S-3-4-220127 (860-19938-1) and Cell21-Square 41-S-3-4-220127 (860-19938-2). Elevated reporting limits (RLs) are provided.

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

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

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

Pesticides
Method 8081B: The laboratory control sample (LCS) associated with preparation batch 860-39480 and analytical batch 860-39536 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC
Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell21-Square 146-S-3-4-220127 (860-19938-1) and Cell21-Square 41-S-3-4-220127 (860-19938-2) in preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell21-Square 146-S-3-4-220127 (860-19938-1) and Cell21-Square 41-S-3-4-220127 (860-19938-2). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell21-Square 146-S-3-4-220127 (860-19938-1) and Cell21-Square 41-S-3-4-220127 (860-19938-2) in preparation batch 280-564725 and 280-565272 by 8330B_Sonc_10g for 8330B.

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

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19938-1 (Continued)

Laboratory: Eurofins Houston (Continued)

LCMS

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

PFAS

Method PFC: During pH adjustment, the following samples required 2 mL of acid to reach the desired pH: Cell21-Square 146-S-3-4-220127 (860-19938-1). Most samples take less than 1 mL to reach the desired range preparation batch 280-565681. Method:PFC

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 9066: The laboratory control sample (LCS) for preparation batch 860-42380 and analytical batch 860-43154 recovered outside control limits for the following analytes: Phenols, Total. These analytes were biased high in the LCS and were not detected in the associated samples; 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.

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 AnalyteTh-234 Pa-234Th-234 U-238Pb-210 Po-210 Pb-210 Bi-210Cs-137 Ba-137mPb-212 Po-216Xe-131m Xe-131Sb-125 Te-125mAg-108m Ag-108Rh-106 Ru-106Pb-212 Th-228Pb-212 Ra-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. Cell21-Square 146-S-3-4-220127 (860-19938 -1), Cell21-Square 41-S-3-4-220127 (860-19938-2), (LCS 160-549553/2-A), (MB 160-549553/1-A), (860-19990-D-2-B) and (860-19990-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 146-S-3-4-220127 Lab Sample ID: 860-19938-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	2.00	J	8.43	0.422	ug/Kg	1		8260B	Total/NA
Diesel Range Organics (Over C10-C28)	25.5	J	49.8	21.0	mg/Kg	1		8015B NM	Total/NA
Nitrate as N	3.93		1.01	0.109	mg/Kg	1		9056A	Total/NA
Fluoride	6.95		5.03	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.602	J	1.01	0.0503	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	4.53		1.01	0.109	mg/Kg	1		9056A	Total/NA
Sulfate	71.1		10.1	4.35	mg/Kg	1		9056A	Total/NA
Arsenic	2.06	J	3.70	0.571	mg/Kg	10		6020A	Total/NA
Barium	201		3.70	0.321	mg/Kg	10		6020A	Total/NA
Beryllium	0.202	J	1.85	0.171	mg/Kg	10		6020A	Total/NA
Chromium	4.69		3.70	0.251	mg/Kg	10		6020A	Total/NA
Copper	1.93	J	3.70	0.242	mg/Kg	10		6020A	Total/NA
Iron	3560		18.5	2.17	mg/Kg	10		6020A	Total/NA
Manganese	34.1		1.85	0.236	mg/Kg	10		6020A	Total/NA
Lead	2.39		1.85	0.179	mg/Kg	10		6020A	Total/NA
Antimony	0.120	J	1.85	0.110	mg/Kg	10		6020A	Total/NA
Uranium	0.289	J	0.926	0.0554	mg/Kg	10		6020A	Total/NA
Zinc	14.6		3.70	0.410	mg/Kg	10		6020A	Total/NA
Mercury	0.00582	J	0.0182	0.00349	mg/Kg	1		7471A	Total/NA
Cyanide, Total	46.4	J	59.4	29.5	ug/Kg	1		9012A	Total/NA
pH	8.9	HF			SU	1		9045D	Soluble
Total Dissolved Solids	204		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell21-Square 41-S-3-4-220127 Lab Sample ID: 860-19938-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	14.1		1.02	0.110	mg/Kg	1		9056A	Total/NA
Fluoride	4.25	J	5.08	1.02	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.613	J	1.02	0.0508	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	14.7		1.02	0.110	mg/Kg	1		9056A	Total/NA
Sulfate	346		10.2	4.39	mg/Kg	1		9056A	Total/NA
Arsenic	2.43	J	3.51	0.541	mg/Kg	10		6020A	Total/NA
Barium	260		3.51	0.304	mg/Kg	10		6020A	Total/NA
Chromium	2.93	J	3.51	0.238	mg/Kg	10		6020A	Total/NA
Copper	1.19	J	3.51	0.229	mg/Kg	10		6020A	Total/NA
Iron	2460		17.5	2.06	mg/Kg	10		6020A	Total/NA
Manganese	23.5		1.75	0.223	mg/Kg	10		6020A	Total/NA
Lead	1.41	J	1.75	0.170	mg/Kg	10		6020A	Total/NA
Antimony	0.127	J	1.75	0.104	mg/Kg	10		6020A	Total/NA
Uranium	0.362	J	0.877	0.0524	mg/Kg	10		6020A	Total/NA
Zinc	8.43		3.51	0.388	mg/Kg	10		6020A	Total/NA
Mercury	0.00573	J	0.0182	0.00349	mg/Kg	1		7471A	Total/NA
pH	8.6	HF			SU	1		9045D	Soluble
Total Dissolved Solids	249		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 146-S-3-4-220127 **Lab Sample ID: 860-19938-1**
Date Collected: 01/27/22 13:36 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.616	U	4.22	0.616	ug/Kg			01/31/22 19:13	1
Chloromethane	1.01	U	4.22	1.01	ug/Kg			01/31/22 19:13	1
Vinyl chloride	0.506	U	4.22	0.506	ug/Kg			01/31/22 19:13	1
Bromomethane	0.927	U	4.22	0.927	ug/Kg			01/31/22 19:13	1
Trichlorofluoromethane	0.422	U	4.22	0.422	ug/Kg			01/31/22 19:13	1
Acrolein	7.25	U	42.2	7.25	ug/Kg			01/31/22 19:13	1
1,1-Dichloroethene	0.422	U	4.22	0.422	ug/Kg			01/31/22 19:13	1
trans-1,2-Dichloroethene	0.422	U	4.22	0.422	ug/Kg			01/31/22 19:13	1
Methyl tert-butyl ether	0.514	U	4.22	0.514	ug/Kg			01/31/22 19:13	1
1,3-Dichlorobenzene	0.261	U	4.22	0.261	ug/Kg			01/31/22 19:13	1
Methylene Chloride	4.22	U	21.1	4.22	ug/Kg			01/31/22 19:13	1
Acrylonitrile	3.04	U	42.2	3.04	ug/Kg			01/31/22 19:13	1
cis-1,2-Dichloroethene	0.481	U	4.22	0.481	ug/Kg			01/31/22 19:13	1
Carbon tetrachloride	0.430	U	4.22	0.430	ug/Kg			01/31/22 19:13	1
Benzene	0.531	U	4.22	0.531	ug/Kg			01/31/22 19:13	1
1,2-Dichloroethane	0.438	U	4.22	0.438	ug/Kg			01/31/22 19:13	1
Trichloroethene	0.236	U	4.22	0.236	ug/Kg			01/31/22 19:13	1
1,1,1-Trichloroethane	0.422	U	4.22	0.422	ug/Kg			01/31/22 19:13	1
1,1-Dichloroethane	0.497	U	4.22	0.497	ug/Kg			01/31/22 19:13	1
1,2-Dichloropropane	0.422	U	4.22	0.422	ug/Kg			01/31/22 19:13	1
1,4-Dioxane	16.0	U	84.3	16.0	ug/Kg			01/31/22 19:13	1
Chloroform	0.734	U	4.22	0.734	ug/Kg			01/31/22 19:13	1
Bromodichloromethane	0.169	U	4.22	0.169	ug/Kg			01/31/22 19:13	1
1,1-Dichloropropene	0.438	U	4.22	0.438	ug/Kg			01/31/22 19:13	1
cis-1,3-Dichloropropene	0.379	U	4.22	0.379	ug/Kg			01/31/22 19:13	1
Toluene	0.759	U	4.22	0.759	ug/Kg			01/31/22 19:13	1
trans-1,3-Dichloropropene	0.438	U	4.22	0.438	ug/Kg			01/31/22 19:13	1
1,1,2-Trichloroethane	0.422	U	4.22	0.422	ug/Kg			01/31/22 19:13	1
Tetrachloroethene	0.624	U	4.22	0.624	ug/Kg			01/31/22 19:13	1
1,3-Dichloropropene, Total	0.438	U	4.22	0.438	ug/Kg			01/31/22 19:13	1
1,2-Dibromoethane	0.253	U	4.22	0.253	ug/Kg			01/31/22 19:13	1
Monochlorobenzene	0.253	U	4.22	0.253	ug/Kg			01/31/22 19:13	1
Ethylbenzene	0.379	U	4.22	0.379	ug/Kg			01/31/22 19:13	1
Xylenes, Total	**2.00**	**J**	8.43	0.422	ug/Kg			01/31/22 19:13	1
Styrene	0.253	U	4.22	0.253	ug/Kg			01/31/22 19:13	1
Tribromomethane	0.430	U	4.22	0.430	ug/Kg			01/31/22 19:13	1
1,1,2,2-Tetrachloroethane	0.320	U	4.22	0.320	ug/Kg			01/31/22 19:13	1
1,4-Dichlorobenzene	0.270	U	4.22	0.270	ug/Kg			01/31/22 19:13	1
1,2-Dichlorobenzene	0.211	U	4.22	0.211	ug/Kg			01/31/22 19:13	1
1,2,4-Trichlorobenzene	0.818	U	4.22	0.818	ug/Kg			01/31/22 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*65 - 152*		*01/31/22 19:13*	*1*
Toluene-d8 (Surr)	*98*		*65 - 139*		*01/31/22 19:13*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 136*		*01/31/22 19:13*	*1*
4-Bromofluorobenzene (Surr)	*129*		*61 - 142*		*01/31/22 19:13*	*1*

Method: 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	0.00495	0.00248	mg/Kg		02/01/22 11:08	02/01/22 21:16	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 146-S-3-4-220127 **Lab Sample ID: 860-19938-1**
Date Collected: 01/27/22 13:36 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*88*		*63 - 144*	*02/01/22 11:08*	*02/01/22 21:16*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	59.3	U	326	59.3	ug/Kg		02/10/22 13:33	02/14/22 19:10	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*95*		*30 - 164*	*02/10/22 13:33*	*02/14/22 19:10*	*5*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	169	U	1620	169	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
1,2,4,5-Tetrachlorobenzene	160	U	1620	160	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
1-Methylnaphthalene	260	U	1620	260	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
bis (2-chloroisopropyl) ether	173	U	1620	173	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
2,4,5-Trichlorophenol	185	U	1620	185	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
2,4,6-Trichlorophenol	153	U	1620	153	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
2,4-Dinitrotoluene	124	U	1620	124	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Dinitrophenols	235	U	3240	235	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
2,4-Dichlorophenol	170	U	1620	170	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
2,6-Dinitrotoluene	226	U	1620	226	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Dichlorobenzidine, 3,3'-	150	U	3240	150	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
4,6-Dinitro-2-methylphenol	124	U	3240	124	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Acenaphthene	151	U	1620	151	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Anthracene	134	U	1620	134	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Acenaphthylene	144	U	1620	144	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Benzo[a]anthracene	137	U	1620	137	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Benzo[b]fluoranthene	122	U	1620	122	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Benzo[k]fluoranthene	188	U	1620	188	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Benzo[g,h,i]perylene	149	U	1620	149	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Benzo[a]pyrene	167	U	1620	167	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Di (2-ethylhexyl)phthalate	1620	U	3240	1620	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Bis(2-chloroethyl)ether	148	U	1620	148	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Chrysene	161	U	1620	161	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Dibutylphthalate	156	U	1620	156	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Dibenz(a,h)anthracene	123	U	1620	123	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Diethyl phthalate	149	U	1620	149	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Dimethyl phthalate	154	U	1620	154	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Fluoranthene	143	U	1620	143	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Fluorene	135	U	1620	135	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Hexachlorobenzene	158	U	1620	158	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Hexachlorobutadiene	135	U	1620	135	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Hexachlorocyclopentadiene	148	U	1620	148	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Hexachloroethane	168	U	1620	168	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Indeno[1,2,3-cd]pyrene	131	U	1620	131	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Isophorone	141	U	1620	141	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
N-Nitrosodi-n-butylamine	246	U	1620	246	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
N-Nitrosodiethylamine	213	U	1620	213	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
N-Nitrosodiphenylamine	181	U	1620	181	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
N-Nitrosopyrrolidine	137	U	1620	137	ug/Kg		01/31/22 07:24	02/02/22 03:49	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 146-S-3-4-220127 **Lab Sample ID: 860-19938-1**
Date Collected: 01/27/22 13:36 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	155	U	1620	155	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Pentachlorophenol	118	U	3240	118	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Phenanthrene	161	U	1620	161	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Pyrene	142	U	1620	142	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Naphthalene	152	U	1620	152	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
2-Methylnaphthalene	439	U	1620	439	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Nitrobenzene	180	U	1620	180	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Benzidine	118	U	3240	118	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Phenol	0.146	U	3.24	0.146	mg/Kg		01/31/22 07:24	02/02/22 03:49	10
N-Nitrosodimethylamine	163	U	1620	163	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Atrazine	161	U *	3240	161	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Thiophene, tetrahydro-, 1,1-dioxide	3240	U	3240	3240	ug/Kg		01/31/22 07:24	02/02/22 03:49	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*6.48*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 07:24*	*02/02/22 03:49*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*30 - 115*	*01/31/22 07:24*	*02/02/22 03:49*	*10*
2-Fluorophenol	*71*		*25 - 121*	*01/31/22 07:24*	*02/02/22 03:49*	*10*
2,4,6-Tribromophenol	*76*		*19 - 122*	*01/31/22 07:24*	*02/02/22 03:49*	*10*
Nitrobenzene-d5	*59*		*23 - 129*	*01/31/22 07:24*	*02/02/22 03:49*	*10*
Phenol-d5 (Surr)	*71*		*24 - 113*	*01/31/22 07:24*	*02/02/22 03:49*	*10*
p-Terphenyl-d14 (Surr)	*75*		*18 - 137*	*01/31/22 07:24*	*02/02/22 03:49*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 21:57	1
Diesel Range Organics (Over C10-C28)	**25.5**	**J**	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 21:57	1
OII Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*65 - 130*	*02/02/22 10:33*	*02/02/22 21:57*	*1*
o-Terphenyl (Surr)	*79*		*65 - 130*	*02/02/22 10:33*	*02/02/22 21:57*	*1*

Method: 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		01/29/22 11:03	01/31/22 14:38	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Endrin aldehyde	0.247	U *	0.832	0.247	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/29/22 11:03	01/31/22 14:38	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 146-S-3-4-220127 **Lab Sample ID: 860-19938-1**
Date Collected: 01/27/22 13:36 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Heptachlor epoxide	0.244	U	0.832	0.244	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/29/22 11:03	01/31/22 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*35 - 135*	*01/29/22 11:03*	*01/31/22 14:38*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*25 - 143*	*01/29/22 11:03*	*01/31/22 14:38*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:47	1
Aroclor 1221	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:47	1
Aroclor 1232	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:47	1
Aroclor 1242	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:47	1
Aroclor 1248	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:47	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:47	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*35 - 140*	*01/29/22 11:03*	*01/31/22 19:47*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*37 - 142*	*01/29/22 11:03*	*01/31/22 19:47*	*1*

Method: 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	0.0949	0.0215	mg/Kg		02/05/22 11:25	02/10/22 14:32	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0408	U	0.190	0.0408	mg/Kg		02/05/22 11:25	02/10/22 14:32	1
2,4,6-Trinitrotoluene	0.0291	U	0.0949	0.0291	mg/Kg		02/05/22 11:25	02/10/22 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*105*		*83 - 122*	*02/05/22 11:25*	*02/10/22 14:32*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.56	U	10.1	3.56	mg/Kg		02/01/22 20:42	02/02/22 03:20	1
Nitrate as N	**3.93**		1.01	0.109	mg/Kg		02/01/22 20:42	02/02/22 03:20	1
Fluoride	**6.95**		5.03	1.01	mg/Kg		02/01/22 20:42	02/02/22 03:20	1
Nitrite as N	**0.602**	**J**	1.01	0.0503	mg/Kg		02/01/22 20:42	02/02/22 03:20	1
Nitrate Nitrite as N	**4.53**		1.01	0.109	mg/Kg		02/01/22 20:42	02/02/22 03:20	1
Sulfate	**71.1**		10.1	4.35	mg/Kg		02/01/22 20:42	02/02/22 03:20	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0800	U	0.485	0.0800	ug/Kg		02/03/22 17:49	02/08/22 19:54	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.229	U	0.796	0.229	ug/Kg		02/10/22 11:04	02/16/22 13:50	1
Perfluorohexanesulfonic acid (PFHxS)	0.279	U	0.796	0.279	ug/Kg		02/10/22 11:04	02/16/22 13:50	1
Perfluorooctanesulfonic acid (PFOS)	0.139	U	0.796	0.139	ug/Kg		02/10/22 11:04	02/16/22 13:50	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 146-S-3-4-220127 Lab Sample ID: 860-19938-1

Date Collected: 01/27/22 13:36 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	105		57 - 153	02/10/22 11:04	02/16/22 13:50	1
13C8 PFOS	109		70 - 130	02/10/22 11:04	02/16/22 13:50	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.147	U	1.85	0.147	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Arsenic	**2.06**	**J**	3.70	0.571	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Barium	**201**		3.70	0.321	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Beryllium	**0.202**	**J**	1.85	0.171	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Cadmium	0.107	U	1.85	0.107	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Chromium	**4.69**		3.70	0.251	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Copper	**1.93**	**J**	3.70	0.242	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Iron	**3560**		18.5	2.17	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Manganese	**34.1**		1.85	0.236	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Lead	**2.39**		1.85	0.179	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Antimony	**0.120**	**J**	1.85	0.110	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Selenium	0.459	U	1.85	0.459	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Thallium	0.221	U	1.85	0.221	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Uranium	**0.289**	**J**	0.926	0.0554	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Zinc	**14.6**		3.70	0.410	mg/Kg		02/03/22 09:33	02/03/22 16:54	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00582**	**J**	0.0182	0.00349	mg/Kg		02/01/22 08:30	02/01/22 12:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**46.4**	**J**	59.4	29.5	ug/Kg		02/09/22 15:50	02/09/22 17:27	1
Phenols, Total	0.0600	U *	0.100	0.0600	mg/Kg		02/22/22 10:19	02/24/22 11:42	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.9**	**HF**			SU			02/09/22 14:16	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**204**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**0.451**		0.103	0.113	1.00	0.0735	pCi/g	02/07/22 10:12	02/28/22 11:44	1
Radium-228	**0.262**		0.145	0.148		0.220	pCi/g	02/07/22 10:12	02/28/22 11:44	1
Combined Radium 226 + 228	**0.713**		0.178	0.186		0.220	pCi/g	02/07/22 10:12	02/28/22 11:44	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 41-S-3-4-220127 **Lab Sample ID: 860-19938-2**
Date Collected: 01/27/22 14:10 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.716	U	4.90	0.716	ug/Kg			01/31/22 19:39	1
Chloromethane	1.18	U	4.90	1.18	ug/Kg			01/31/22 19:39	1
Vinyl chloride	0.588	U	4.90	0.588	ug/Kg			01/31/22 19:39	1
Bromomethane	1.08	U	4.90	1.08	ug/Kg			01/31/22 19:39	1
Trichlorofluoromethane	0.490	U	4.90	0.490	ug/Kg			01/31/22 19:39	1
Acrolein	8.43	U	49.0	8.43	ug/Kg			01/31/22 19:39	1
1,1-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			01/31/22 19:39	1
trans-1,2-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			01/31/22 19:39	1
Methyl tert-butyl ether	0.598	U	4.90	0.598	ug/Kg			01/31/22 19:39	1
1,3-Dichlorobenzene	0.304	U	4.90	0.304	ug/Kg			01/31/22 19:39	1
Methylene Chloride	4.90	U	24.5	4.90	ug/Kg			01/31/22 19:39	1
Acrylonitrile	3.53	U	49.0	3.53	ug/Kg			01/31/22 19:39	1
cis-1,2-Dichloroethene	0.559	U	4.90	0.559	ug/Kg			01/31/22 19:39	1
Carbon tetrachloride	0.500	U	4.90	0.500	ug/Kg			01/31/22 19:39	1
Benzene	0.618	U	4.90	0.618	ug/Kg			01/31/22 19:39	1
1,2-Dichloroethane	0.510	U	4.90	0.510	ug/Kg			01/31/22 19:39	1
Trichloroethene	0.275	U	4.90	0.275	ug/Kg			01/31/22 19:39	1
1,1,1-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			01/31/22 19:39	1
1,1-Dichloroethane	0.578	U	4.90	0.578	ug/Kg			01/31/22 19:39	1
1,2-Dichloropropane	0.490	U	4.90	0.490	ug/Kg			01/31/22 19:39	1
1,4-Dioxane	18.6	U	98.0	18.6	ug/Kg			01/31/22 19:39	1
Chloroform	0.853	U	4.90	0.853	ug/Kg			01/31/22 19:39	1
Bromodichloromethane	0.196	U	4.90	0.196	ug/Kg			01/31/22 19:39	1
1,1-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			01/31/22 19:39	1
cis-1,3-Dichloropropene	0.441	U	4.90	0.441	ug/Kg			01/31/22 19:39	1
Toluene	0.882	U	4.90	0.882	ug/Kg			01/31/22 19:39	1
trans-1,3-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			01/31/22 19:39	1
1,1,2-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			01/31/22 19:39	1
Tetrachloroethene	0.725	U	4.90	0.725	ug/Kg			01/31/22 19:39	1
1,3-Dichloropropene, Total	0.510	U	4.90	0.510	ug/Kg			01/31/22 19:39	1
1,2-Dibromoethane	0.294	U	4.90	0.294	ug/Kg			01/31/22 19:39	1
Monochlorobenzene	0.294	U	4.90	0.294	ug/Kg			01/31/22 19:39	1
Ethylbenzene	0.441	U	4.90	0.441	ug/Kg			01/31/22 19:39	1
Xylenes, Total	0.490	U	9.80	0.490	ug/Kg			01/31/22 19:39	1
Styrene	0.294	U	4.90	0.294	ug/Kg			01/31/22 19:39	1
Tribromomethane	0.500	U	4.90	0.500	ug/Kg			01/31/22 19:39	1
1,1,2,2-Tetrachloroethane	0.373	U	4.90	0.373	ug/Kg			01/31/22 19:39	1
1,4-Dichlorobenzene	0.314	U	4.90	0.314	ug/Kg			01/31/22 19:39	1
1,2-Dichlorobenzene	0.245	U	4.90	0.245	ug/Kg			01/31/22 19:39	1
1,2,4-Trichlorobenzene	0.951	U	4.90	0.951	ug/Kg			01/31/22 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*65 - 152*		*01/31/22 19:39*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/31/22 19:39*	*1*
Dibromofluoromethane (Surr)	*96*		*50 - 136*		*01/31/22 19:39*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*01/31/22 19:39*	*1*

Method: 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	0.00496	0.00248	mg/Kg		02/01/22 11:08	02/03/22 01:31	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 41-S-3-4-220127 **Lab Sample ID: 860-19938-2**
Date Collected: 01/27/22 14:10 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*108*		*63 - 144*	*02/01/22 11:08*	*02/03/22 01:31*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.8	U	65.0	11.8	ug/Kg		02/10/22 13:33	02/14/22 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*95*		*30 - 164*	*02/10/22 13:33*	*02/14/22 19:36*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	172	U	1650	172	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
1,2,4,5-Tetrachlorobenzene	163	U	1650	163	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
1-Methylnaphthalene	264	U	1650	264	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
bis (2-chloroisopropyl) ether	176	U	1650	176	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
2,4,5-Trichlorophenol	188	U	1650	188	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
2,4,6-Trichlorophenol	156	U	1650	156	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
2,4-Dinitrotoluene	126	U	1650	126	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Dinitrophenols	239	U	3300	239	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
2,4-Dichlorophenol	172	U	1650	172	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
2,6-Dinitrotoluene	230	U	1650	230	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Dichlorobenzidine, 3,3'-	152	U	3300	152	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
4,6-Dinitro-2-methylphenol	126	U	3300	126	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Acenaphthene	153	U	1650	153	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Anthracene	137	U	1650	137	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Acenaphthylene	146	U	1650	146	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Benzo[a]anthracene	139	U	1650	139	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Benzo[b]fluoranthene	124	U	1650	124	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Benzo[k]fluoranthene	191	U	1650	191	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Benzo[g,h,i]perylene	152	U	1650	152	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Benzo[a]pyrene	170	U	1650	170	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Di (2-ethylhexyl)phthalate	1650	U	3300	1650	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Bis(2-chloroethyl)ether	150	U	1650	150	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Chrysene	163	U	1650	163	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Dibutylphthalate	159	U	1650	159	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Dibenz(a,h)anthracene	125	U	1650	125	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Diethyl phthalate	151	U	1650	151	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Dimethyl phthalate	157	U	1650	157	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Fluoranthene	145	U	1650	145	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Fluorene	137	U	1650	137	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Hexachlorobenzene	160	U	1650	160	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Hexachlorobutadiene	137	U	1650	137	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Hexachlorocyclopentadiene	150	U	1650	150	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Hexachloroethane	171	U	1650	171	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Indeno[1,2,3-cd]pyrene	133	U	1650	133	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Isophorone	143	U	1650	143	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
N-Nitrosodi-n-butylamine	250	U	1650	250	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
N-Nitrosodiethylamine	217	U	1650	217	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
N-Nitrosodiphenylamine	184	U	1650	184	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
N-Nitrosopyrrolidine	139	U	1650	139	ug/Kg		01/31/22 07:24	02/02/22 04:14	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 41-S-3-4-220127 **Lab Sample ID: 860-19938-2**
Date Collected: 01/27/22 14:10 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	157	U	1650	157	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Pentachlorophenol	120	U	3300	120	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Phenanthrene	164	U	1650	164	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Pyrene	144	U	1650	144	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Naphthalene	154	U	1650	154	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
2-Methylnaphthalene	447	U	1650	447	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Nitrobenzene	183	U	1650	183	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Benzidine	120	U	3300	120	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Phenol	0.148	U	3.30	0.148	mg/Kg		01/31/22 07:24	02/02/22 04:14	10
N-Nitrosodimethylamine	166	U	1650	166	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Atrazine	163	U *	3300	163	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Thiophene, tetrahydro-, 1,1-dioxide	3290	U	3300	3290	ug/Kg		01/31/22 07:24	02/02/22 04:14	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*6.59*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 07:24*	*02/02/22 04:14*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*30 - 115*	*01/31/22 07:24*	*02/02/22 04:14*	*10*
2-Fluorophenol	*70*		*25 - 121*	*01/31/22 07:24*	*02/02/22 04:14*	*10*
2,4,6-Tribromophenol	*86*		*19 - 122*	*01/31/22 07:24*	*02/02/22 04:14*	*10*
Nitrobenzene-d5	*58*		*23 - 129*	*01/31/22 07:24*	*02/02/22 04:14*	*10*
Phenol-d5 (Surr)	*64*		*24 - 113*	*01/31/22 07:24*	*02/02/22 04:14*	*10*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*	*01/31/22 07:24*	*02/02/22 04:14*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 22:17	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 22:17	1
OII Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*65 - 130*	*02/02/22 10:33*	*02/02/22 22:17*	*1*
o-Terphenyl (Surr)	*79*		*65 - 130*	*02/02/22 10:33*	*02/02/22 22:17*	*1*

Method: 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		01/29/22 11:03	01/31/22 14:54	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Endosulfan I	0.201	U	0.832	0.201	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Endrin aldehyde	0.247	U *	0.832	0.247	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/29/22 11:03	01/31/22 14:54	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 41-S-3-4-220127 **Lab Sample ID: 860-19938-2**
Date Collected: 01/27/22 14:10 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Heptachlor epoxide	0.244	U	0.832	0.244	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/29/22 11:03	01/31/22 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*35 - 135*	*01/29/22 11:03*	*01/31/22 14:54*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*25 - 143*	*01/29/22 11:03*	*01/31/22 14:54*	*1*

Method: 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		01/29/22 11:03	01/31/22 19:57	1
Aroclor 1221	0.00394	U	0.0166	0.00394	mg/Kg		01/29/22 11:03	01/31/22 19:57	1
Aroclor 1232	0.00394	U	0.0166	0.00394	mg/Kg		01/29/22 11:03	01/31/22 19:57	1
Aroclor 1242	0.00394	U	0.0166	0.00394	mg/Kg		01/29/22 11:03	01/31/22 19:57	1
Aroclor 1248	0.00394	U	0.0166	0.00394	mg/Kg		01/29/22 11:03	01/31/22 19:57	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:57	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*35 - 140*	*01/29/22 11:03*	*01/31/22 19:57*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*37 - 142*	*01/29/22 11:03*	*01/31/22 19:57*	*1*

Method: 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	0.0213	U	0.0940	0.0213	mg/Kg		02/05/22 11:25	02/10/22 14:55	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0404	U	0.188	0.0404	mg/Kg		02/05/22 11:25	02/10/22 14:55	1
2,4,6-Trinitrotoluene	0.0289	U	0.0940	0.0289	mg/Kg		02/05/22 11:25	02/10/22 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*105*		*83 - 122*	*02/05/22 11:25*	*02/10/22 14:55*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.60	U	10.2	3.60	mg/Kg		02/01/22 20:42	02/02/22 03:32	1
Nitrate as N	**14.1**		1.02	0.110	mg/Kg		02/01/22 20:42	02/02/22 03:32	1
Fluoride	**4.25**	**J**	5.08	1.02	mg/Kg		02/01/22 20:42	02/02/22 03:32	1
Nitrite as N	**0.613**	**J**	1.02	0.0508	mg/Kg		02/01/22 20:42	02/02/22 03:32	1
Nitrate Nitrite as N	**14.7**		1.02	0.110	mg/Kg		02/01/22 20:42	02/02/22 03:32	1
Sulfate	**346**		10.2	4.39	mg/Kg		02/01/22 20:42	02/02/22 03:32	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0813	U	0.493	0.0813	ug/Kg		02/03/22 17:49	02/08/22 20:15	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.211	U	0.735	0.211	ug/Kg		02/10/22 11:04	02/16/22 13:59	1
Perfluorohexanesulfonic acid (PFHxS)	0.257	U	0.735	0.257	ug/Kg		02/10/22 11:04	02/16/22 13:59	1
Perfluorooctanesulfonic acid (PFOS)	0.129	U	0.735	0.129	ug/Kg		02/10/22 11:04	02/16/22 13:59	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 41-S-3-4-220127 **Lab Sample ID: 860-19938-2**
Date Collected: 01/27/22 14:10 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	101		57 - 153	02/10/22 11:04	02/16/22 13:59	1
13C8 PFOS	105		70 - 130	02/10/22 11:04	02/16/22 13:59	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.139	U	1.75	0.139	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Arsenic	**2.43**	**J**	3.51	0.541	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Barium	**260**		3.51	0.304	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Beryllium	0.162	U	1.75	0.162	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Cadmium	0.102	U	1.75	0.102	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Chromium	**2.93**	**J**	3.51	0.238	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Copper	**1.19**	**J**	3.51	0.229	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Iron	**2460**		17.5	2.06	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Manganese	**23.5**		1.75	0.223	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Lead	**1.41**	**J**	1.75	0.170	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Antimony	**0.127**	**J**	1.75	0.104	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Selenium	0.435	U	1.75	0.435	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Thallium	0.210	U	1.75	0.210	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Uranium	**0.362**	**J**	0.877	0.0524	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Zinc	**8.43**		3.51	0.388	mg/Kg		02/03/22 09:33	02/03/22 16:57	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00573**	**J**	0.0182	0.00349	mg/Kg		02/01/22 08:30	02/01/22 12:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	28.5	U	57.5	28.5	ug/Kg		02/09/22 15:50	02/09/22 17:28	1
Phenols, Total	0.0600	U *	0.100	0.0600	mg/Kg		02/22/22 10:19	02/24/22 11:44	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**	**HF**			SU			02/09/22 14:16	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**249**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**1.24**		0.208	0.244	1.00	0.0927	pCi/g	02/07/22 10:12	02/28/22 11:45	1
Radium-228	0.171	U	0.303	0.304		0.346	pCi/g	02/07/22 10:12	02/28/22 11:45	1
Combined Radium 226 + 228	**1.41**		0.368	0.390		0.346	pCi/g	02/07/22 10:12	02/28/22 11:45	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(65-152)	(65-139)	(50-136)	(61-142)
860-19938-1	Cell21-Square 146-S-3-4-220127	96	98	95	129
860-19938-2	Cell21-Square 41-S-3-4-220127	96	95	96	109
LCS 560-192708/3	Lab Control Sample	97	95	97	116
MB 560-192708/7	Method Blank	93	94	94	109

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID				
LCSD 560-192708/4	Lab Control Sample Dup				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCA
Lab Sample ID	Client Sample ID	(63-144)
860-19938-1	Cell21-Square 146-S-3-4-220127	88
860-19938-2	Cell21-Square 41-S-3-4-220127	108
LCS 860-39864/11	Lab Control Sample	90
LCS 860-40051/11	Lab Control Sample	101
LCSD 860-39864/12	Lab Control Sample Dup	92
LCSD 860-40051/12	Lab Control Sample Dup	102
MB 860-39864/16	Method Blank	91
MB 860-40051/16	Method Blank	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19938-1	Cell21-Square 146-S-3-4-220127	95

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Pesticides by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		TPP								
Lab Sample ID	Client Sample ID	(30-164)								
860-19938-1 MS	Cell21-Square 146-S-3-4-220127	102								
860-19938-1 MSD	Cell21-Square 146-S-3-4-220127	105								
860-19938-2	Cell21-Square 41-S-3-4-220127	95								
LCS 400-566137/2-A	Lab Control Sample	98								
MB 400-566137/1-A	Method Blank	95								

Surrogate Legend

TPP = Triphenylphosphate

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		FBP	2FP	TBP	NBZ	PHL	TPHd14		
Lab Sample ID	Client Sample ID	(30-115)	(25-121)	(19-122)	(23-129)	(24-113)	(18-137)		
860-19938-1	Cell21-Square 146-S-3-4-220127	66	71	76	59	71	75		
860-19938-2	Cell21-Square 41-S-3-4-220127	68	70	86	58	64	82		
LCS 860-39525/2-A	Lab Control Sample	79	78	87	74	77	82		
LCSD 860-39525/3-A	Lab Control Sample Dup	97	91	106	87	90	99		
MB 860-39525/1-A	Method Blank	81	82	92	84	80	91		

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		1CO1	OTPH1						
Lab Sample ID	Client Sample ID	(65-130)	(65-130)						
860-19938-1	Cell21-Square 146-S-3-4-220127	90	79						
860-19938-2	Cell21-Square 41-S-3-4-220127	90	79						
LCS 860-39790/2-A - RA	Lab Control Sample	107	100						
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	110	103						
MB 860-39790/1-A - RA	Method Blank	105	97						

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	DCB1								
Lab Sample ID	Client Sample ID	(35-135)	(25-143)								
860-19938-1	Cell21-Square 146-S-3-4-220127	71	87								
860-19938-2	Cell21-Square 41-S-3-4-220127	89	99								
LCS 860-39480/2-A	Lab Control Sample	101	123								
LCSD 860-39480/3-A	Lab Control Sample Dup	100	112								
MB 860-39480/1-A	Method Blank	96	108								

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)									
		TCX1	DCB1								
Lab Sample ID	Client Sample ID	(35-140)	(37-142)								
860-19938-1	Cell21-Square 146-S-3-4-220127	58	93								
860-19938-2	Cell21-Square 41-S-3-4-220127	73	98								
LCS 860-39480/4-A	Lab Control Sample	84	83								
LCSD 860-39480/5-A	Lab Control Sample Dup	79	80								
MB 860-39480/1-A	Method Blank	75	81								

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)									
		12DNB1									
Lab Sample ID	Client Sample ID	(83-122)									
860-19938-1	Cell21-Square 146-S-3-4-220127	105									
860-19938-2	Cell21-Square 41-S-3-4-220127	105									
LCS 280-565272/2-A	Lab Control Sample	99									
MB 280-565272/1-A	Method Blank	105									

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		C8PFOA	C8PFOS								
Lab Sample ID	Client Sample ID	(57-153)	(70-130)								
860-19938-1	Cell21-Square 146-S-3-4-220127	105	109								
860-19938-2	Cell21-Square 41-S-3-4-220127	101	105								
DLCK 280-556129/13	Lab Control Sample	98	105								
LCS 280-565681/2-A	Lab Control Sample	104	108								

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)								
MB 280-565681/1-A	Method Blank	104	107								

Surrogate Legend

C8PFOA = 13C8 PFOA

C8PFOS = 13C8 PFOS

QC Sample Results

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

Job ID: 860-19938-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192708/7
Matrix: Solid
Analysis Batch: 192708

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/31/22 17:31	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/31/22 17:31	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/31/22 17:31	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/31/22 17:31	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/31/22 17:31	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/31/22 17:31	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/31/22 17:31	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/31/22 17:31	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/31/22 17:31	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/31/22 17:31	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/31/22 17:31	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/31/22 17:31	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/31/22 17:31	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/31/22 17:31	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/31/22 17:31	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/31/22 17:31	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/31/22 17:31	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/31/22 17:31	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/31/22 17:31	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/31/22 17:31	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/31/22 17:31	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/31/22 17:31	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/31/22 17:31	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/31/22 17:31	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/31/22 17:31	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/31/22 17:31	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/31/22 17:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*65 - 152*		*01/31/22 17:31*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/31/22 17:31*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 136*		*01/31/22 17:31*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*01/31/22 17:31*	*1*

QC Sample Results

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

Job ID: 860-19938-1

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

Lab Sample ID: LCS 560-192708/3
Matrix: Solid
Analysis Batch: 192708

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	34.36		ug/Kg		86	13 - 130
Chloromethane	40.0	27.10		ug/Kg		68	61 - 137
Vinyl chloride	40.0	34.62		ug/Kg		87	65 - 139
Bromomethane	40.0	33.04		ug/Kg		83	57 - 155
Trichlorofluoromethane	40.0	33.86		ug/Kg		85	68 - 146
Acrolein	395	400.4		ug/Kg		101	20 - 150
1,1-Dichloroethene	40.0	36.01		ug/Kg		90	70 - 130
trans-1,2-Dichloroethene	40.0	36.31		ug/Kg		91	70 - 132
Methyl tert-butyl ether	40.0	37.80		ug/Kg		94	70 - 130
1,3-Dichlorobenzene	40.0	35.81		ug/Kg		90	70 - 130
Methylene Chloride	40.0	35.93		ug/Kg		90	61 - 150
Acrylonitrile	400	383.7		ug/Kg		96	66 - 137
cis-1,2-Dichloroethene	40.0	37.19		ug/Kg		93	70 - 130
Carbon tetrachloride	40.0	32.72		ug/Kg		82	70 - 136
Benzene	40.0	37.15		ug/Kg		93	70 - 131
1,2-Dichloroethane	40.0	33.42		ug/Kg		84	70 - 130
Trichloroethene	40.0	34.77		ug/Kg		87	70 - 130
1,1,1-Trichloroethane	40.0	34.21		ug/Kg		86	70 - 132
1,1-Dichloroethane	40.0	35.87		ug/Kg		90	70 - 130
1,2-Dichloropropane	40.0	37.59		ug/Kg		94	70 - 130
1,4-Dioxane	800	826.6		ug/Kg		103	10 - 150
Chloroform	40.0	34.91		ug/Kg		87	70 - 130
Bromodichloromethane	40.0	36.92		ug/Kg		92	70 - 130
1,1-Dichloropropene	40.0	37.35		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	34.37		ug/Kg		86	70 - 130
Toluene	40.0	33.36		ug/Kg		83	70 - 130
trans-1,3-Dichloropropene	40.0	36.54		ug/Kg		91	70 - 131
1,1,2-Trichloroethane	40.0	35.23		ug/Kg		88	70 - 130
Tetrachloroethene	40.0	29.92		ug/Kg		75	70 - 130
1,3-Dichloropropene, Total	80.0	70.91		ug/Kg		89	
1,2-Dibromoethane	40.0	34.45		ug/Kg		86	70 - 130
Monochlorobenzene	40.0	32.86		ug/Kg		82	70 - 130
Ethylbenzene	40.0	36.53		ug/Kg		91	70 - 130
Xylenes, Total	80.0	76.14		ug/Kg		95	70 - 130
Styrene	40.0	37.34		ug/Kg		93	70 - 130
Tribromomethane	40.0	30.61		ug/Kg		77	59 - 137
1,1,2,2-Tetrachloroethane	40.0	40.95		ug/Kg		102	70 - 130
1,4-Dichlorobenzene	40.0	34.59		ug/Kg		86	70 - 130
1,2-Dichlorobenzene	40.0	36.35		ug/Kg		91	70 - 130
1,2,4-Trichlorobenzene	40.0	37.86		ug/Kg		95	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*97*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 560-192708/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192708

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			40.0	33.29		ug/Kg					
Chloromethane			40.0	28.33		ug/Kg					
Vinyl chloride			40.0	32.66		ug/Kg					
Bromomethane			40.0	31.81		ug/Kg					
Trichlorofluoromethane			40.0	32.59		ug/Kg					
Acrolein			395	377.9		ug/Kg					
1,1-Dichloroethene			40.0	34.97		ug/Kg					
trans-1,2-Dichloroethene			40.0	35.70		ug/Kg					
Methyl tert-butyl ether			40.0	37.35		ug/Kg					
1,3-Dichlorobenzene			40.0	34.31		ug/Kg					
Methylene Chloride			40.0	34.74		ug/Kg					
Acrylonitrile			400	369.0		ug/Kg					
cis-1,2-Dichloroethene			40.0	36.26		ug/Kg					
Carbon tetrachloride			40.0	32.07		ug/Kg					
Benzene			40.0	36.36		ug/Kg					
1,2-Dichloroethane			40.0	32.07		ug/Kg					
Trichloroethene			40.0	33.88		ug/Kg					
1,1,1-Trichloroethane			40.0	32.99		ug/Kg					
1,1-Dichloroethane			40.0	35.18		ug/Kg					
1,2-Dichloropropane			40.0	36.68		ug/Kg					
1,4-Dioxane			800	795.1		ug/Kg					
Chloroform			40.0	34.02		ug/Kg					
Bromodichloromethane			40.0	35.77		ug/Kg					
1,1-Dichloropropene			40.0	36.69		ug/Kg					
cis-1,3-Dichloropropene			40.0	33.41		ug/Kg					
Toluene			40.0	32.50		ug/Kg					
trans-1,3-Dichloropropene			40.0	35.22		ug/Kg					
1,1,2-Trichloroethane			40.0	33.98		ug/Kg					
Tetrachloroethene			40.0	28.74		ug/Kg					
1,3-Dichloropropene, Total			80.0	68.63		ug/Kg					
1,2-Dibromoethane			40.0	33.01		ug/Kg					
Monochlorobenzene			40.0	31.64		ug/Kg					
Ethylbenzene			40.0	35.09		ug/Kg					
Xylenes, Total			80.0	73.57		ug/Kg					
Styrene			40.0	36.06		ug/Kg					
Tribromomethane			40.0	29.33		ug/Kg					
1,1,2,2-Tetrachloroethane			40.0	38.63		ug/Kg					
1,4-Dichlorobenzene			40.0	33.25		ug/Kg					
1,2-Dichlorobenzene			40.0	34.68		ug/Kg					
1,2,4-Trichlorobenzene			40.0	35.73		ug/Kg					

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)			
Toluene-d8 (Surr)			
Dibromofluoromethane (Surr)			
4-Bromofluorobenzene (Surr)			

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39864/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

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			02/01/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*		*02/01/22 17:15*	*1*

Lab Sample ID: LCS 860-39864/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.04692		mg/Kg		94	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*

Lab Sample ID: LCSD 860-39864/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.04791		mg/Kg		96	65 - 135	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 144*

Lab Sample ID: MB 860-40051/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

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			02/03/22 00:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*02/03/22 00:47*	*1*

Lab Sample ID: LCS 860-40051/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.05356		mg/Kg		107	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-40051/12 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.05670		mg/Kg		113	65 - 135	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-566137/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566465 **Prep Batch: 566137**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/10/22 13:25	02/14/22 17:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*95*		*30 - 164*	*02/10/22 13:25*	*02/14/22 17:25*	*1*

Lab Sample ID: LCS 400-566137/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566465 **Prep Batch: 566137**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	313.3		ug/Kg		94	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*98*		*30 - 164*

Lab Sample ID: 860-19938-1 MS **Client Sample ID: Cell21-Square 146-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566465 **Prep Batch: 566137**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon	59.3	U	330	307.6	J	ug/Kg		93	40 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Triphenylphosphate	*102*		*30 - 164*

Lab Sample ID: 860-19938-1 MSD **Client Sample ID: Cell21-Square 146-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566465 **Prep Batch: 566137**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Prometon	59.3	U	331	332.8		ug/Kg		101	40 - 140	8	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Triphenylphosphate	*105*		*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39525/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

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		01/31/22 07:24	01/31/22 15:17	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/31/22 07:24	01/31/22 15:17	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39525/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/31/22 07:24	01/31/22 15:17	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.667*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 07:24*	*01/31/22 15:17*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*30 - 115*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
2-Fluorophenol	*82*		*25 - 121*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
2,4,6-Tribromophenol	*92*		*19 - 122*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
Nitrobenzene-d5	*84*		*23 - 129*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
Phenol-d5 (Surr)	*80*		*24 - 113*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
p-Terphenyl-d14 (Surr)	*91*		*18 - 137*	*01/31/22 07:24*	*01/31/22 15:17*	*1*

Lab Sample ID: LCS 860-39525/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	758.3		ug/Kg		57	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	828.6		ug/Kg		62	35 - 135
1-Methylnaphthalene	1330	792.3		ug/Kg		59	38 - 127
bis (2-chloroisopropyl) ether	1330	552.7		ug/Kg		41	25 - 124
2,4,5-Trichlorophenol	1330	864.1		ug/Kg		65	40 - 135
2,4,6-Trichlorophenol	1330	851.3		ug/Kg		64	39 - 139
2,4-Dinitrotoluene	1330	820.1		ug/Kg		62	48 - 131
Dinitrophenols	1330	703.9		ug/Kg		53	19 - 131
2,4-Dichlorophenol	1330	870.3		ug/Kg		65	36 - 135
2,6-Dinitrotoluene	1330	768.3		ug/Kg		58	42 - 136
Dichlorobenzidine, 3,3'-	1330	668.5		ug/Kg		50	35 - 134
4,6-Dinitro-2-methylphenol	1330	776.6		ug/Kg		58	30 - 146
Acenaphthene	1330	752.5		ug/Kg		56	37 - 131
Anthracene	1330	805.2		ug/Kg		60	39 - 139
Acenaphthylene	1330	766.0		ug/Kg		57	39 - 129
Benzo[a]anthracene	1330	792.5		ug/Kg		59	44 - 135
Benzo[b]fluoranthene	1330	791.7		ug/Kg		59	40 - 153
Benzo[k]fluoranthene	1330	840.9		ug/Kg		63	33 - 156
Benzo[g,h,i]perylene	1330	730.7		ug/Kg		55	40 - 153
Benzo[a]pyrene	1330	781.0		ug/Kg		59	43 - 153
Di (2-ethylhexyl)phthalate	1330	865.0		ug/Kg		65	46 - 145
Bis(2-chloroethyl)ether	1330	641.8		ug/Kg		48	33 - 127
Chrysene	1330	753.3		ug/Kg		56	42 - 135
Dibutylphthalate	1330	792.2		ug/Kg		59	43 - 142
Dibenz(a,h)anthracene	1330	741.2		ug/Kg		56	41 - 155
Diethyl phthalate	1330	755.0		ug/Kg		57	45 - 131
Dimethyl phthalate	1330	748.1		ug/Kg		56	43 - 132

QC Sample Results

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

Job ID: 860-19938-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39525/2-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	1330	772.9		ug/Kg		58	41 - 138
Fluorene	1330	777.0		ug/Kg		58	41 - 131
Hexachlorobenzene	1330	800.2		ug/Kg		60	36 - 142
Hexachlorobutadiene	1330	835.3		ug/Kg		63	35 - 129
Hexachlorocyclopentadiene	1330	975.8		ug/Kg		73	16 - 106
Hexachloroethane	1330	710.2		ug/Kg		53	36 - 121
Indeno[1,2,3-cd]pyrene	1330	741.3		ug/Kg		56	39 - 154
Isophorone	1330	743.4		ug/Kg		56	36 - 128
N-Nitrosodi-n-butylamine	1330	766.3		ug/Kg		57	34 - 135
N-Nitrosodiethylamine	1330	801.8		ug/Kg		60	36 - 127
N-Nitrosodiphenylamine	1330	800.6		ug/Kg		60	27 - 155
N-Nitrosopyrrolidine	1330	762.5		ug/Kg		57	38 - 136
Pentachlorobenzene	1330	767.7		ug/Kg		58	38 - 136
Pentachlorophenol	1330	870.3		ug/Kg		65	14 - 148
Phenanthrene	1330	777.9		ug/Kg		58	37 - 139
Pyrene	1330	841.1		ug/Kg		63	42 - 138
Naphthalene	1330	792.2		ug/Kg		59	35 - 128
2-Methylnaphthalene	1330	796.2		ug/Kg		60	36 - 126
Nitrobenzene	1330	779.9		ug/Kg		58	32 - 129
Benzidine	1330	247.7	J	ug/Kg		19	12 - 112
Phenol	1.33	0.7528		mg/Kg		56	34 - 127
N-Nitrosodimethylamine	1330	767.2		ug/Kg		58	27 - 126
Atrazine	1330	561.2		ug/Kg		42	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1330	638.5		ug/Kg		48	30 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*30 - 115*
2-Fluorophenol	*78*		*25 - 121*
2,4,6-Tribromophenol	*87*		*19 - 122*
Nitrobenzene-d5	*74*		*23 - 129*
Phenol-d5 (Surr)	*77*		*24 - 113*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*

Lab Sample ID: LCSD 860-39525/3-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	1330	899.2		ug/Kg		67	20 - 157	17	30
1,2,4,5-Tetrachlorobenzene	1330	991.4		ug/Kg		74	35 - 135	18	30
1-Methylnaphthalene	1330	913.6		ug/Kg		69	38 - 127	14	30
bis (2-chloroisopropyl) ether	1330	652.6		ug/Kg		49	25 - 124	17	30
2,4,5-Trichlorophenol	1330	1068		ug/Kg		80	40 - 135	21	30
2,4,6-Trichlorophenol	1330	1027		ug/Kg		77	39 - 139	19	30
2,4-Dinitrotoluene	1330	996.4		ug/Kg		75	48 - 131	19	30
Dinitrophenols	1330	865.9		ug/Kg		65	19 - 131	21	40
2,4-Dichlorophenol	1330	1028		ug/Kg		77	36 - 135	17	30

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39525/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 39561
Prep Batch: 39525

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,6-Dinitrotoluene			1330	946.2		ug/Kg		71	42 - 136	21	30
Dichlorobenzidine, 3,3'-			1330	749.6		ug/Kg		56	35 - 134	11	40
4,6-Dinitro-2-methylphenol			1330	984.9		ug/Kg		74	30 - 146	24	40
Acenaphthene			1330	925.8		ug/Kg		69	37 - 131	21	30
Anthracene			1330	966.2		ug/Kg		72	39 - 139	18	30
Acenaphthylene			1330	934.2		ug/Kg		70	39 - 129	20	30
Benzo[a]anthracene			1330	954.4		ug/Kg		72	44 - 135	19	30
Benzo[b]fluoranthene			1330	953.0		ug/Kg		71	40 - 153	18	30
Benzo[k]fluoranthene			1330	1007		ug/Kg		76	33 - 156	18	30
Benzo[g,h,i]perylene			1330	908.8		ug/Kg		68	40 - 153	22	30
Benzo[a]pyrene			1330	945.4		ug/Kg		71	43 - 153	19	30
Di (2-ethylhexyl)phthalate			1330	1053		ug/Kg		79	46 - 145	20	30
Bis(2-chloroethyl)ether			1330	767.8		ug/Kg		58	33 - 127	18	30
Chrysene			1330	916.1		ug/Kg		69	42 - 135	20	30
Dibutylphthalate			1330	965.3		ug/Kg		72	43 - 142	20	30
Dibenz(a,h)anthracene			1330	887.4		ug/Kg		67	41 - 155	18	30
Diethyl phthalate			1330	892.3		ug/Kg		67	45 - 131	17	30
Dimethyl phthalate			1330	916.7		ug/Kg		69	43 - 132	20	30
Fluoranthene			1330	900.5		ug/Kg		68	41 - 138	15	30
Fluorene			1330	934.1		ug/Kg		70	41 - 131	18	30
Hexachlorobenzene			1330	969.6		ug/Kg		73	36 - 142	19	30
Hexachlorobutadiene			1330	970.6		ug/Kg		73	35 - 129	15	30
Hexachlorocyclopentadiene			1330	1156		ug/Kg		87	16 - 106	17	30
Hexachloroethane			1330	842.6		ug/Kg		63	36 - 121	17	30
Indeno[1,2,3-cd]pyrene			1330	879.3		ug/Kg		66	39 - 154	17	30
Isophorone			1330	852.9		ug/Kg		64	36 - 128	14	30
N-Nitrosodi-n-butylamine			1330	896.9		ug/Kg		67	34 - 135	16	30
N-Nitrosodiethylamine			1330	946.7		ug/Kg		71	36 - 127	17	30
N-Nitrosodiphenylamine			1330	938.1		ug/Kg		70	27 - 155	16	30
N-Nitrosopyrrolidine			1330	854.3		ug/Kg		64	38 - 136	11	30
Pentachlorobenzene			1330	963.6		ug/Kg		72	38 - 136	23	30
Pentachlorophenol			1330	985.6		ug/Kg		74	14 - 148	12	40
Phenanthrene			1330	932.3		ug/Kg		70	37 - 139	18	30
Pyrene			1330	1052		ug/Kg		79	42 - 138	22	30
Naphthalene			1330	918.4		ug/Kg		69	35 - 128	15	30
2-Methylnaphthalene			1330	934.0		ug/Kg		70	36 - 126	16	30
Nitrobenzene			1330	917.7		ug/Kg		69	32 - 129	16	30
Benzidine			1330	348.0		ug/Kg		26	12 - 112	34	40
Phenol			1.33	0.8851		mg/Kg		66	34 - 127	16	40
N-Nitrosodimethylamine			1330	885.8		ug/Kg		66	27 - 126	14	30
Atrazine			1330	922.0	*	ug/Kg		69	18 - 134	49	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	747.1		ug/Kg		56	30 - 130	16	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*97*		*30 - 115*
2-Fluorophenol	*91*		*25 - 121*
2,4,6-Tribromophenol	*106*		*19 - 122*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39525/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5	87		23 - 129
Phenol-d5 (Surr)	90		24 - 113
p-Terphenyl-d14 (Surr)	99		18 - 137

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

Lab Sample ID: MB 860-39790/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Diesel Range Organics (Over C10-C28) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
OII Range Organics (Over C28-C36) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane - RA	105		65 - 130	02/01/22 12:48	02/02/22 17:41	1
o-Terphenyl (Surr) - RA	97		65 - 130	02/01/22 12:48	02/02/22 17:41	1

Lab Sample ID: LCS 860-39790/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10 - RA			994	1024		mg/Kg		103	70 - 135		
Diesel Range Organics (Over C10-C28) - RA			996	974.9		mg/Kg		98	70 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane - RA	107		65 - 130
o-Terphenyl (Surr) - RA	100		65 - 130

Lab Sample ID: LCSD 860-39790/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10 - RA			994	1028		mg/Kg		103	70 - 135	0	35
Diesel Range Organics (Over C10-C28) - RA			996	1002		mg/Kg		101	70 - 135	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane - RA	110		65 - 130
o-Terphenyl (Surr) - RA	103		65 - 130

QC Sample Results

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

Job ID: 860-19938-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-39480/1-A
Matrix: Solid
Analysis Batch: 39536

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39480

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/29/22 11:03	01/31/22 10:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*35 - 135*	*01/29/22 11:03*	*01/31/22 10:45*	*1*
DCB Decachlorobiphenyl (Surr)	*108*		*25 - 143*	*01/29/22 11:03*	*01/31/22 10:45*	*1*

Lab Sample ID: LCS 860-39480/2-A
Matrix: Solid
Analysis Batch: 39536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	16.7	20.83		ug/Kg		125	13 - 192
Aldrin	16.7	20.27		ug/Kg		122	30 - 152
Hexachlorocyclohexane, alpha-	16.7	19.40		ug/Kg		116	29 - 160
Hexachlorocyclohexane, beta-	16.7	21.37		ug/Kg		128	30 - 155
Hexachlorocyclohexane, delta-	16.7	19.40		ug/Kg		116	20 - 161
Dieldrin	16.7	21.61		ug/Kg		130	33 - 153
Endosulfan I	16.7	20.94		ug/Kg		126	30 - 151
Endosulfan II	16.7	19.27		ug/Kg		116	27 - 153
Endosulfan sulfate	16.7	20.37		ug/Kg		122	15 - 170
Endrin	16.7	21.93		ug/Kg		132	25 - 162
Endrin aldehyde	16.7	20.13	*	ug/Kg		121	49 - 117
Hexachlorocyclohexane, gamma-	16.7	20.13		ug/Kg		121	30 - 158
Heptachlor	16.7	20.69		ug/Kg		124	29 - 163
Heptachlor epoxide	16.7	20.38		ug/Kg		122	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*101*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*123*		*25 - 143*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-39480/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39536 **Prep Batch: 39480**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT			16.7	20.06		ug/Kg		120	13 - 192	4	25
Aldrin			16.7	20.31		ug/Kg		122	30 - 152	0	25
Hexachlorocyclohexane, alpha-			16.7	19.67		ug/Kg		118	29 - 160	1	25
Hexachlorocyclohexane, beta-			16.7	20.97		ug/Kg		126	30 - 155	2	25
Hexachlorocyclohexane, delta-			16.7	19.02		ug/Kg		114	20 - 161	2	25
Dieldrin			16.7	21.09		ug/Kg		127	33 - 153	2	25
Endosulfan I			16.7	20.45		ug/Kg		123	30 - 151	2	25
Endosulfan II			16.7	18.59		ug/Kg		112	27 - 153	4	25
Endosulfan sulfate			16.7	19.57		ug/Kg		117	15 - 170	4	25
Endrin			16.7	21.16		ug/Kg		127	25 - 162	4	25
Endrin aldehyde			16.7	19.32		ug/Kg		116	49 - 117	4	25
Hexachlorocyclohexane, gamma-			16.7	20.03		ug/Kg		120	30 - 158	0	25
Heptachlor			16.7	20.86		ug/Kg		125	29 - 163	1	25
Heptachlor epoxide			16.7	19.96		ug/Kg		120	30 - 150	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*100*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*112*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-39480/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/29/22 11:03	01/31/22 17:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*35 - 140*	*01/29/22 11:03*	*01/31/22 17:36*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 142*	*01/29/22 11:03*	*01/31/22 17:36*	*1*

Lab Sample ID: LCS 860-39480/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016			0.167	0.1562		mg/Kg		94	27 - 121
Aroclor 1260			0.167	0.1483		mg/Kg		89	27 - 139

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-39480/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	84		35 - 140
DCB Decachlorobiphenyl (Surr)	83		37 - 142

Lab Sample ID: LCSD 860-39480/5-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1508		mg/Kg		90	27 - 121	4	20
Aroclor 1260			0.167	0.1483		mg/Kg		89	27 - 139	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	79		35 - 140
DCB Decachlorobiphenyl (Surr)	80		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565272/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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		02/05/22 11:25	02/10/22 06:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 06:07	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/05/22 11:25	02/10/22 06:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	02/05/22 11:25	02/10/22 06:07	1

Lab Sample ID: LCS 280-565272/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.9312		mg/Kg		93	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9739		mg/Kg		97	80 - 124
2,4,6-Trinitrotoluene			1.00	0.9953		mg/Kg		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	99		83 - 122

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: LCS 860-3971/2-A
Matrix: Solid
Analysis Batch: 39718

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	99.5	99.43		mg/Kg		100	80 - 120
Nitrate as N	99.5	99.56		mg/Kg		100	80 - 120
Fluoride	99.5	100.2		mg/Kg		101	80 - 120
Nitrite as N	49.8	46.63		mg/Kg		94	80 - 120
Nitrate Nitrite as N	149	146.2		mg/Kg		98	80 - 120
Sulfate	99.5	99.07		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 860-3971/3-A
Matrix: Solid
Analysis Batch: 39718

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3971

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	99.5	99.88		mg/Kg		100	80 - 120	0	20
Nitrate as N	99.5	99.51		mg/Kg		100	80 - 120	0	20
Fluoride	99.5	100.3		mg/Kg		101	80 - 120	0	20
Nitrite as N	49.8	46.64		mg/Kg		94	80 - 120	0	20
Nitrate Nitrite as N	149	146.2		mg/Kg		98	80 - 120	0	20
Sulfate	99.5	99.07		mg/Kg		100	80 - 120	0	20

Lab Sample ID: MB 860-39863/1-A
Matrix: Solid
Analysis Batch: 39718

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39863

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Nitrite as N	0.0500	U	1.00	0.0500	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Nitrate Nitrite as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		02/01/22 17:11	02/02/22 09:59	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12
Matrix: Solid
Analysis Batch: 564802

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

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.04711	J	ug/L		94	70 - 130

Lab Sample ID: MB 280-565161/1-A
Matrix: Solid
Analysis Batch: 565540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:01	1

QC Sample Results

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

Job ID: 860-19938-1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS (Continued)

Lab Sample ID: LCS 280-565161/2-A
Matrix: Solid
Analysis Batch: 565540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5047		ug/Kg		101	80 - 120

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13
Matrix: Solid
Analysis Batch: 556129

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

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.500	0.490	U	ug/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4417	J	ug/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		95	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

Lab Sample ID: MB 280-565681/1-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565681

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/10/22 11:04	02/16/22 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/10/22 11:04*	*02/16/22 11:21*	*1*
13C8 PFOS	*107*		*70 - 130*	*02/10/22 11:04*	*02/16/22 11:21*	*1*

Lab Sample ID: LCS 280-565681/2-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	20.31		ug/Kg		102	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	18.45		ug/Kg		101	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.74		ug/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*108*		*70 - 130*

QC Sample Results

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

Job ID: 860-19938-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-40114/1-A
Matrix: Solid
Analysis Batch: 40171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40114

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/03/22 09:32	02/03/22 13:00	1

Lab Sample ID: LCS 860-40114/2-A
Matrix: Solid
Analysis Batch: 40171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	5.00	4.818		mg/Kg		96	80 - 120
Arsenic	10.0	9.424		mg/Kg		94	80 - 120
Barium	10.0	9.503		mg/Kg		95	80 - 120
Beryllium	10.0	9.650		mg/Kg		96	80 - 120
Cadmium	10.0	9.511		mg/Kg		95	80 - 120
Chromium	10.0	9.366		mg/Kg		94	80 - 120
Copper	10.0	9.347		mg/Kg		93	80 - 120
Iron	50.0	46.41		mg/Kg		93	80 - 120
Manganese	10.0	9.685		mg/Kg		97	80 - 120
Lead	10.0	9.308		mg/Kg		93	80 - 120
Antimony	10.0	9.708		mg/Kg		97	80 - 120
Selenium	10.0	9.491		mg/Kg		95	80 - 120
Thallium	10.0	9.419		mg/Kg		94	80 - 120
Uranium	2.50	2.341		mg/Kg		94	80 - 120
Zinc	10.0	10.41		mg/Kg		104	80 - 120

Lab Sample ID: LCSD 860-40114/3-A
Matrix: Solid
Analysis Batch: 40171

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40114

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.90	4.645		mg/Kg		95	80 - 120	4	20
Arsenic	9.80	9.222		mg/Kg		94	80 - 120	2	20
Barium	9.80	9.259		mg/Kg		94	80 - 120	3	20
Beryllium	9.80	9.570		mg/Kg		98	80 - 120	1	20
Cadmium	9.80	9.279		mg/Kg		95	80 - 120	2	20
Chromium	9.80	9.111		mg/Kg		93	80 - 120	3	20
Copper	9.80	8.911		mg/Kg		91	80 - 120	5	20

QC Sample Results

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

Job ID: 860-19938-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-40114/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40171 — **Prep Batch: 40114**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron			49.0	45.01		mg/Kg		92	80 - 120	3	20
Manganese			9.80	9.456		mg/Kg		96	80 - 120	2	20
Lead			9.80	9.072		mg/Kg		93	80 - 120	3	20
Antimony			9.80	9.488		mg/Kg		97	80 - 120	2	20
Selenium			9.80	9.306		mg/Kg		95	80 - 120	2	20
Thallium			9.80	9.182		mg/Kg		94	80 - 120	3	20
Uranium			2.45	2.324		mg/Kg		95	80 - 120	1	20
Zinc			9.80	9.952		mg/Kg		102	80 - 120	5	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39690/10-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39840 — **Prep Batch: 39690**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00377	U	0.0196	0.00377	mg/Kg		02/01/22 08:30	02/01/22 12:23	1

Lab Sample ID: LCS 860-39690/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39840 — **Prep Batch: 39690**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.192	0.1814		mg/Kg		94	80 - 120		

Lab Sample ID: LCSD 860-39690/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39840 — **Prep Batch: 39690**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.192	0.1813		mg/Kg		94	80 - 120	0	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40886/22-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/09/22 15:50	02/09/22 17:14	1

Lab Sample ID: LCS 860-40886/23-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			100	102.7		ug/Kg		103	90 - 110		

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LLCS 860-40886/24-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			50.0	52.26		ug/Kg		105	90 - 110		

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-42380/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43154 — **Prep Batch: 42380**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/22/22 10:19	02/24/22 11:23	1

Lab Sample ID: LCS 860-42380/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43154 — **Prep Batch: 42380**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenols, Total			1.00	1.120	*	mg/Kg		112	90 - 110		

Lab Sample ID: LCSD 860-42380/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43154 — **Prep Batch: 42380**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total			1.00	1.040		mg/Kg		104	90 - 110	7	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193206/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/15/22 15:10	1

Lab Sample ID: LCS 560-193206/2 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			2250	2124		mg/L		94	90 - 110		

Lab Sample ID: 860-19938-1 DU — **Client Sample ID: Cell21-Square 146-S-3-4-220127**
Matrix: Solid — **Prep Type: 7 Day Leach**
Analysis Batch: 193206

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	204			198.0		mg/L				3	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: LCS 160-549553/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 552706 **Prep Batch: 549553**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.2	96.60		11.6		1.13	pCi/g	100	75 - 125
Cesium-137	26.0	26.44		3.22		0.201	pCi/g	102	75 - 125
Cobalt-60	8.07	8.469		1.06		0.145	pCi/g	105	75 - 125

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	5035	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	5035	

Analysis Batch: 39864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8260D SIM	39768
MB 860-39864/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-39864/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-39864/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 40051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8260D SIM	39768
MB 860-40051/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-40051/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-40051/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8260B	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8260B	
MB 560-192708/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192708/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192708/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	3550C	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	3550C	
MB 860-39525/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39525/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39525/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 39561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-39525/1-A	Method Blank	Total/NA	Solid	8270D	39525
LCS 860-39525/2-A	Lab Control Sample	Total/NA	Solid	8270D	39525
LCSD 860-39525/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	39525

Analysis Batch: 39861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8270D	39525
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8270D	39525

Prep Batch: 566137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	3546	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	3546	
MB 400-566137/1-A	Method Blank	Total/NA	Solid	3546	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS Semi VOA (Continued)

Prep Batch: 566137 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	3546	
860-19938-1 MS	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	3546	
860-19938-1 MSD	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	3546	

Analysis Batch: 566465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8270D	566137
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8270D	566137
MB 400-566137/1-A	Method Blank	Total/NA	Solid	8270D	566137
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	8270D	566137
860-19938-1 MS	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8270D	566137
860-19938-1 MSD	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8270D	566137

GC Semi VOA

Prep Batch: 39480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	3550C	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	3550C	
MB 860-39480/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39480/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-39480/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39480/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-39480/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 39536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8081B	39480
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8081B	39480
MB 860-39480/1-A	Method Blank	Total/NA	Solid	8081B	39480
LCS 860-39480/2-A	Lab Control Sample	Total/NA	Solid	8081B	39480
LCSD 860-39480/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	39480

Analysis Batch: 39558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8082A	39480
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8082A	39480
MB 860-39480/1-A	Method Blank	Total/NA	Solid	8082A	39480
LCS 860-39480/4-A	Lab Control Sample	Total/NA	Solid	8082A	39480
LCSD 860-39480/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	39480

Prep Batch: 39790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8015NM Prep	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8015NM Prep	
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Analysis Batch: 39915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8015B NM	39790
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8015B NM	39790
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015B NM	39790
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015B NM	39790
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39790

HPLC/IC

Prep Batch: 3971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-3971/2-A	Lab Control Sample	Total/NA	Solid	MEHL Prep	
LCSD 860-3971/3-A	Lab Control Sample Dup	Total/NA	Solid	MEHL Prep	

Analysis Batch: 39718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	9056A	39863
MB 860-39863/1-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-3971/2-A	Lab Control Sample	Total/NA	Solid	9056A	3971
LCSD 860-3971/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	3971

Analysis Batch: 39719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	9056A	39863
MB 860-39863/1-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-3971/2-A	Lab Control Sample	Total/NA	Solid	9056A	3971
LCSD 860-3971/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	3971

Prep Batch: 39863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	300_Prep	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	300_Prep	
MB 860-39863/1-A	Method Blank	Total/NA	Solid	300_Prep	

Drying Batch: 564725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	Prep/Air Dry	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8330B	564725
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8330B	564725
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 565637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8330B	565272
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8330B	565272

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Analysis Batch: 565637 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	565272
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	565272

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	6860	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	6860	
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	6860	565161
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	6860	565161
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	565161
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	565161

Prep Batch: 565681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	PFC leach	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	PFC leach	
MB 280-565681/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 566232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	DV-LC-0012	565681
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	DV-LC-0012	565681
MB 280-565681/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565681
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565681

Metals

Prep Batch: 39690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	7471A	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	7471A	
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Analysis Batch: 39840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	7471A	39690
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	7471A	39690
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	39690
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	39690
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39690

Prep Batch: 40114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	3051A	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	3051A	
MB 860-40114/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-40114/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-40114/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 40171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-40114/1-A	Method Blank	Total/NA	Solid	6020A	40114
LCS 860-40114/2-A	Lab Control Sample	Total/NA	Solid	6020A	40114
LCSD 860-40114/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	40114

Analysis Batch: 40235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	6020A	40114
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	6020A	40114

General Chemistry

Analysis Batch: 39955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	Moisture - 2540	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	Moisture - 2540	
MB 860-39955/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Leach Batch: 40845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Soluble	Solid	DI Leach	
860-19938-2	Cell21-Square 41-S-3-4-220127	Soluble	Solid	DI Leach	

Analysis Batch: 40861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Soluble	Solid	9045D	40845
860-19938-2	Cell21-Square 41-S-3-4-220127	Soluble	Solid	9045D	40845

Prep Batch: 40886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	9012A	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	9012A	
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Analysis Batch: 40920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	9012A	40886
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	9012A	40886
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	40886
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	40886
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	40886

Prep Batch: 42380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	Distill/Phenol	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	Distill/Phenol	
MB 860-42380/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-42380/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-42380/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 43154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	9066	42380
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	9066	42380
MB 860-42380/1-A	Method Blank	Total/NA	Solid	9066	42380
LCS 860-42380/2-A	Lab Control Sample	Total/NA	Solid	9066	42380
LCSD 860-42380/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	42380

Leach Batch: 193204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	7 Day Leach	Solid	335.521	
860-19938-2	Cell21-Square 41-S-3-4-220127	7 Day Leach	Solid	335.521	
860-19938-1 DU	Cell21-Square 146-S-3-4-220127	7 Day Leach	Solid	335.521	

Analysis Batch: 193206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	7 Day Leach	Solid	SM 2540C	193204
860-19938-2	Cell21-Square 41-S-3-4-220127	7 Day Leach	Solid	SM 2540C	193204
MB 560-193206/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193206/2	Lab Control Sample	Total/NA	Solid	SM 2540C	
860-19938-1 DU	Cell21-Square 146-S-3-4-220127	7 Day Leach	Solid	SM 2540C	193204

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	Dry and Grind	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	Dry and Grind	

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	Fill_Geo-21	549041
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	Fill_Geo-21	549041
LCS 160-549553/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 146-S-3-4-220127 **Lab Sample ID: 860-19938-1**
Date Collected: 01/27/22 13:36 **Matrix: Solid**
Date Received: 01/28/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.93 g	5 mL	192708	01/31/22 19:13	RJD	XEN CC
Total/NA	Prep	5035			5.05 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 21:16	EM	XEN STF
Total/NA	Prep	3550C			30.85 g	1 mL	39525	01/31/22 07:24	TH	XEN STF
Total/NA	Analysis	8270D		10	1 mL	1.0 mL	39861	02/02/22 03:49	T1S	XEN STF
Total/NA	Prep	3546			15.18 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		5			566465	02/14/22 19:10	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	39790	02/02/22 10:33	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39915	02/02/22 21:57	T1S	XEN STF
Total/NA	Prep	3550C			30.05 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8081B		1			39536	01/31/22 14:38	WP	XEN STF
Total/NA	Prep	3550C			30.05 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8082A		1			39558	01/31/22 19:47	JAL	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.54 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 14:32	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.97 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	39718	02/02/22 03:20	WP	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	39719	02/02/22 03:20	WP	XEN STF
Total/NA	Prep	6860			10.3 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:54	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.05 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 13:50	AGCM	TAL DEN
Total/NA	Prep	3051A			.54 g	50 mL	40114	02/03/22 09:33	PB	XEN STF
Total/NA	Analysis	6020A		10			40235	02/03/22 16:54	DCL	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:38	SHZ	XEN STF
Total/NA	Prep	9012A			0.5050 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:27	CM1	XEN STF
Soluble	Leach	DI Leach			20.20 g	20 mL	40845	02/09/22 12:58	TL	XEN STF
Soluble	Analysis	9045D		1	20.20 g	20 mL	40861	02/09/22 14:16	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42380	02/22/22 10:19	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	43154	02/24/22 11:42	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			339.2000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552702	02/28/22 11:44	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 41-S-3-4-220127
Lab Sample ID: 860-19938-2
Date Collected: 01/27/22 14:10
Matrix: Solid
Date Received: 01/28/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.1 g	5 mL	192708	01/31/22 19:39	RJD	XEN CC
Total/NA	Prep	5035			5.04 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 01:31	A1S	XEN STF
Total/NA	Prep	3550C			30.34 g	1 mL	39525	01/31/22 07:24	TH	XEN STF
Total/NA	Analysis	8270D		10	1 mL	1.0 mL	39861	02/02/22 04:14	T1S	XEN STF
Total/NA	Prep	3546			15.24 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 19:36	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39790	02/02/22 10:33	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39915	02/02/22 22:17	T1S	XEN STF
Total/NA	Prep	3550C			30.06 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8081B		1			39536	01/31/22 14:54	WP	XEN STF
Total/NA	Prep	3550C			30.06 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8082A		1			39558	01/31/22 19:57	JAL	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.64 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 14:55	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.92 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	39718	02/02/22 03:32	WP	XEN STF
Total/NA	Prep	300_Prep			4.92 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	39719	02/02/22 03:32	WP	XEN STF
Total/NA	Prep	6860			10.14 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 20:15	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.89 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 13:59	AGCM	TAL DEN
Total/NA	Prep	3051A			.57 g	50 mL	40114	02/03/22 09:33	PB	XEN STF
Total/NA	Analysis	6020A		10			40235	02/03/22 16:57	DCL	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:40	SHZ	XEN STF
Total/NA	Prep	9012A			0.5220 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:28	CM1	XEN STF
Soluble	Leach	DI Leach			20.17 g	20 mL	40845	02/09/22 12:58	TL	XEN STF
Soluble	Analysis	9045D		1	20.17 g	20 mL	40861	02/09/22 14:16	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42380	02/22/22 10:19	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	43154	02/24/22 11:44	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			306.1000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552700	02/28/22 11:45	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

Laboratory: Eurofins St. Louis

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19938-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19938-1	Cell21-Square 146-S-3-4-220127	Solid	01/27/22 13:36	01/28/22 10:19
860-19938-2	Cell21-Square 41-S-3-4-220127	Solid	01/27/22 14:10	01/28/22 10:19

Page 675 of 959

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Cory Rodriguez	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-599-5594	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 - 1
Company: ARCADIS U.S. Inc.				Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Standard			
State, Zip: CO, 80129-2377	PO #:			
Phone: 303-710-7537(Tel)	WO #:			
Email: Alison.Schaffer@arcadis.com	Project #: 86002103			
Project Name: Chevron Jal Land Farm Soils	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B- Volatiles	8270C- Semivolatiles/ 8081 Pesticides/ 8082 PCB	8260 - Perchlorate-Ddenver- soil jar 4 oz	6330B Denver soil jar 4 oz	PFC Denver- plastic 10 oz jar	8270D_AgChem -Penacola soil jar 4 oz	2540C_Calcd Local Method/ Moisture/ pH 9045	8015B_GRO	8015_DRO/ORO	GA-01_R_ra- Rad 226/228- St Louis- 2 plastic jars 16	9056- Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate; Fluoride	6020/7471- St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
Cell21-Square Kb-5-3-4-220127	1/27/22	1334	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
Cell21-Square 41-5-3-4-220127	1/27/22	1410	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
TB				Solid																	

860-19938 Chain of Custody

Temp: 3-4 IR ID:HOU-323
C/F:+0.2
Corrected Temp: 36

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Cory Rodriguez	1/27/22 1700	Arcadis			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				1/28/22 10:19	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 01/16/2019

Received by OCD: 9/12/2022 9:41:21 AM

Released to Imaging: 10/28/2022 10:00:56 AM

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9774.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19938-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/16/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell21-Square 146-S-3-4-220127 (860-19938-1)	1/27/22	13:36 Central		Solid			X	1	
Cell21-Square 41-S-3-4-220127 (860-19938-2)	1/27/22	14:10 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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature] FED EX	1/28/22		FED EX		
2	Relinquished by: FED EX	Date/Time:	Company	Received by: [signature]	Date/Time: 1/31/22 0905	Company ETA JTL
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9773.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19938-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/15/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell21-Square 146-S-3-4-220127 (860-19938-1)	1/27/22	13:36 Central		Solid			X	X	X	2	
Cell21-Square 41-S-3-4-220127 (860-19938-2)	1/27/22	14:10 Central		Solid			X	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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by:	Date/Time: 1/28/22	Company	Received by:	Date/Time: 01/29/2022 1013	Company ESTEVEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9772.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-19938-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 2/16/2022			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514	PO #:			
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	WO #:			
Email:	Project #: 86002103			
Project Name: Chevron - Jal Land Farm Soils	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell21-Square 146-S-3-4-220127 (860-19938-1)	1/27/22	13:36 Central		Solid			X	1	
Cell21-Square 41-S-3-4-220127 (860-19938-2)	1/27/22	14:10 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 out 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 complicance 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: lvda	Date/Time: 1/28/22	Company	Received by:	Date/Time: 1-28-22 0:31	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	4.6 IR	

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19938-1

Login Number: 19938 **List Source: Eurofins Houston**
List Number: 1
Creator: Torrez, Lisandra

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	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19938-1

Login Number: 19938 **List Source: Eurofins Houston**
List Number: 2
Creator: Torrez, Lisandra

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19938-1

Login Number: 19938 **List Source: Eurofins Corpus Christi**
List Number: 4 **List Creation: 01/29/22 11:26 AM**
Creator: Forrester, Caitlyn D

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.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19938-1

Login Number: 19938 **List Source: Eurofins Denver**
List Number: 5 **List Creation: 01/29/22 11:26 AM**
Creator: Lee, Jerry

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	
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").	True	
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: 860-19938-1

Login Number: 19938 **List Source: Eurofins Pensacola**
List Number: 3 **List Creation: 01/29/22 10:39 AM**
Creator: Whitley, Adrian

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	4.6°C IR6
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: 860-19938-1

Login Number: 19938 **List Source: Eurofins St. Louis**
List Number: 6 **List Creation: 02/01/22 12:03 PM**
Creator: Johnson, Autumn R

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	
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.	N/A	

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19939-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
2/28/2022 6:04:27 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

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

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

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

Laboratory Job ID: 860-19939-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the 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.

GC/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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.

LCMS

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.

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
*	LCS or LCSD is outside acceptance limits.
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.
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.
¤	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)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19939-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19939-1

Receipt
The samples were received on 1/28/2022 10:19 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C

GC/MS VOA
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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-39525 and analytical batch 860-39561 recovered outside control limits for the following analyte: Atrazine.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: Cell22-Square 132-S-3-4-220127 (860-19939-1) and Cell20-Square 200-S-3-4-220127 (860-19939-2). Elevated reporting limits (RLs) are provided.

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

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

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

Pesticides
Method 8081B: The laboratory control sample (LCS) associated with preparation batch 860-39480 and analytical batch 860-39536 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC
Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell22-Square 132-S-3-4-220127 (860-19939-1) and Cell20-Square 200-S-3-4-220127 (860-19939-2) in preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell22-Square 132-S-3-4-220127 (860-19939-1) and Cell20-Square 200-S-3-4-220127 (860-19939-2). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell22-Square 132-S-3-4-220127 (860-19939-1) and Cell20-Square 200-S-3-4-220127 (860-19939-2) in preparation batch 280-564725 and 280-565272 by 8330B_Sonc_10g for 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.

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19939-1 (Continued)

Laboratory: Eurofins Houston (Continued)

PFAS

Method PFC: During pH adjustment, the following samples required 2 mL of acid to reach the desired pH: Cell22-Square 132-S-3-4-220127 (860-19939-1), Cell20-Square 200-S-3-4-220127 (860-19939-2), (860-19939-D-2 MS) and (860-19939-D-2 MSD). Most samples take less than 1 mL to reach the desired range preparation batch 280-565681. Method:PFC

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 9066: The laboratory control sample (LCS) for preparation batch 860-42380 and analytical batch 860-43154 recovered outside control limits for the following analytes: Phenols, Total. These analytes were biased high in the LCS and were not detected in the associated samples; 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.

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 AnalyteTh-234 Pa-234Th-234 U-238Pb-210 Po-210 Pb-210 Bi-210Cs-137 Ba-137mPb-212 Po-216Xe-131m Xe-131Sb-125 Te-125mAg-108m Ag-108Rh-106 Ru-106Pb-212 Th-228Pb-212 Ra-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. Cell22-Square 132-S-3-4-220127 (860-19939-1), Cell20-Square 200-S-3-4-220127 (860-19939-2), (LCS 160-549553/2-A), (MB 160-549553/1-A), (860-19990-D-2-B) and (860-19990-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell22-Square 132-S-3-4-220127 — Lab Sample ID: 860-19939-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.81	J	10.1	3.59	mg/Kg	1		9056A	Total/NA
Nitrate as N	10.2		1.01	0.110	mg/Kg	1		9056A	Total/NA
Fluoride	5.84		5.07	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.427	J	1.01	0.0507	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	10.6		1.01	0.110	mg/Kg	1		9056A	Total/NA
Sulfate	373		10.1	4.38	mg/Kg	1		9056A	Total/NA
Arsenic	2.24	J	3.77	0.582	mg/Kg	10		6020A	Total/NA
Barium	337		3.77	0.327	mg/Kg	10		6020A	Total/NA
Chromium	3.40	J	3.77	0.256	mg/Kg	10		6020A	Total/NA
Copper	1.42	J	3.77	0.246	mg/Kg	10		6020A	Total/NA
Iron	2620		18.9	2.21	mg/Kg	10		6020A	Total/NA
Manganese	31.3		1.89	0.240	mg/Kg	10		6020A	Total/NA
Lead	1.62	J	1.89	0.183	mg/Kg	10		6020A	Total/NA
Uranium	0.256	J	0.943	0.0564	mg/Kg	10		6020A	Total/NA
Zinc	8.38		3.77	0.418	mg/Kg	10		6020A	Total/NA
Mercury	0.00679	J	0.0189	0.00363	mg/Kg	1		7471A	Total/NA
Cyanide, Total	31.3	J	59.3	29.4	ug/Kg	1		9012A	Total/NA
pH	8.6	HF			SU	1		9045D	Soluble
Total Dissolved Solids	238		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell20-Square 200-S-3-4-220127 — Lab Sample ID: 860-19939-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	5.01		0.988	0.107	mg/Kg	1		9056A	Total/NA
Fluoride	2.06	J	4.94	0.988	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.422	J	0.988	0.0494	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	5.43		0.988	0.107	mg/Kg	1		9056A	Total/NA
Sulfate	91.5		9.88	4.27	mg/Kg	1		9056A	Total/NA
Arsenic	1.61	J	3.45	0.532	mg/Kg	10		6020A	Total/NA
Barium	37.6		3.45	0.299	mg/Kg	10		6020A	Total/NA
Chromium	2.79	J	3.45	0.234	mg/Kg	10		6020A	Total/NA
Copper	1.42	J	3.45	0.225	mg/Kg	10		6020A	Total/NA
Iron	3350		17.2	2.02	mg/Kg	10		6020A	Total/NA
Manganese	162		1.72	0.219	mg/Kg	10		6020A	Total/NA
Lead	2.31		1.72	0.167	mg/Kg	10		6020A	Total/NA
Antimony	0.108	J	1.72	0.103	mg/Kg	10		6020A	Total/NA
Uranium	0.127	J	0.862	0.0515	mg/Kg	10		6020A	Total/NA
Zinc	7.17		3.45	0.382	mg/Kg	10		6020A	Total/NA
Mercury	0.00830	J	0.0189	0.00363	mg/Kg	1		7471A	Total/NA
pH	9.0	HF			SU	1		9045D	Soluble
Total Dissolved Solids	121		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell22-Square 132-S-3-4-220127 **Lab Sample ID: 860-19939-1**
Date Collected: 01/27/22 09:46 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.641	U	4.39	0.641	ug/Kg			01/31/22 20:04	1
Chloromethane	1.05	U	4.39	1.05	ug/Kg			01/31/22 20:04	1
Vinyl chloride	0.527	U	4.39	0.527	ug/Kg			01/31/22 20:04	1
Bromomethane	0.967	U	4.39	0.967	ug/Kg			01/31/22 20:04	1
Trichlorofluoromethane	0.439	U	4.39	0.439	ug/Kg			01/31/22 20:04	1
Acrolein	7.56	U	43.9	7.56	ug/Kg			01/31/22 20:04	1
1,1-Dichloroethene	0.439	U	4.39	0.439	ug/Kg			01/31/22 20:04	1
trans-1,2-Dichloroethene	0.439	U	4.39	0.439	ug/Kg			01/31/22 20:04	1
Methyl tert-butyl ether	0.536	U	4.39	0.536	ug/Kg			01/31/22 20:04	1
1,3-Dichlorobenzene	0.272	U	4.39	0.272	ug/Kg			01/31/22 20:04	1
Methylene Chloride	4.39	U	22.0	4.39	ug/Kg			01/31/22 20:04	1
Acrylonitrile	3.16	U	43.9	3.16	ug/Kg			01/31/22 20:04	1
cis-1,2-Dichloroethene	0.501	U	4.39	0.501	ug/Kg			01/31/22 20:04	1
Carbon tetrachloride	0.448	U	4.39	0.448	ug/Kg			01/31/22 20:04	1
Benzene	0.554	U	4.39	0.554	ug/Kg			01/31/22 20:04	1
1,2-Dichloroethane	0.457	U	4.39	0.457	ug/Kg			01/31/22 20:04	1
Trichloroethene	0.246	U	4.39	0.246	ug/Kg			01/31/22 20:04	1
1,1,1-Trichloroethane	0.439	U	4.39	0.439	ug/Kg			01/31/22 20:04	1
1,1-Dichloroethane	0.518	U	4.39	0.518	ug/Kg			01/31/22 20:04	1
1,2-Dichloropropane	0.439	U	4.39	0.439	ug/Kg			01/31/22 20:04	1
1,4-Dioxane	16.7	U	87.9	16.7	ug/Kg			01/31/22 20:04	1
Chloroform	0.764	U	4.39	0.764	ug/Kg			01/31/22 20:04	1
Bromodichloromethane	0.176	U	4.39	0.176	ug/Kg			01/31/22 20:04	1
1,1-Dichloropropene	0.457	U	4.39	0.457	ug/Kg			01/31/22 20:04	1
cis-1,3-Dichloropropene	0.395	U	4.39	0.395	ug/Kg			01/31/22 20:04	1
Toluene	0.791	U	4.39	0.791	ug/Kg			01/31/22 20:04	1
trans-1,3-Dichloropropene	0.457	U	4.39	0.457	ug/Kg			01/31/22 20:04	1
1,1,2-Trichloroethane	0.439	U	4.39	0.439	ug/Kg			01/31/22 20:04	1
Tetrachloroethene	0.650	U	4.39	0.650	ug/Kg			01/31/22 20:04	1
1,3-Dichloropropene, Total	0.457	U	4.39	0.457	ug/Kg			01/31/22 20:04	1
1,2-Dibromoethane	0.264	U	4.39	0.264	ug/Kg			01/31/22 20:04	1
Monochlorobenzene	0.264	U	4.39	0.264	ug/Kg			01/31/22 20:04	1
Ethylbenzene	0.395	U	4.39	0.395	ug/Kg			01/31/22 20:04	1
Xylenes, Total	0.439	U	8.79	0.439	ug/Kg			01/31/22 20:04	1
Styrene	0.264	U	4.39	0.264	ug/Kg			01/31/22 20:04	1
Tribromomethane	0.448	U	4.39	0.448	ug/Kg			01/31/22 20:04	1
1,1,2,2-Tetrachloroethane	0.334	U	4.39	0.334	ug/Kg			01/31/22 20:04	1
1,4-Dichlorobenzene	0.281	U	4.39	0.281	ug/Kg			01/31/22 20:04	1
1,2-Dichlorobenzene	0.220	U	4.39	0.220	ug/Kg			01/31/22 20:04	1
1,2,4-Trichlorobenzene	0.852	U	4.39	0.852	ug/Kg			01/31/22 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*65 - 152*		*01/31/22 20:04*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/31/22 20:04*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 136*		*01/31/22 20:04*	*1*
4-Bromofluorobenzene (Surr)	*113*		*61 - 142*		*01/31/22 20:04*	*1*

Method: 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	0.00500	0.00250	mg/Kg		02/01/22 11:08	02/03/22 02:59	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell22-Square 132-S-3-4-220127 **Lab Sample ID: 860-19939-1**
Date Collected: 01/27/22 09:46 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*	*02/01/22 11:08*	*02/03/22 02:59*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	65.8	12.0	ug/Kg		02/10/22 13:33	02/14/22 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*87*		*30 - 164*	*02/10/22 13:33*	*02/14/22 20:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	173	U	1660	173	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
1,2,4,5-Tetrachlorobenzene	164	U	1660	164	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
1-Methylnaphthalene	266	U	1660	266	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
bis (2-chloroisopropyl) ether	177	U	1660	177	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
2,4,5-Trichlorophenol	190	U	1660	190	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
2,4,6-Trichlorophenol	157	U	1660	157	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
2,4-Dinitrotoluene	127	U	1660	127	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Dinitrophenols	242	U	3330	242	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
2,4-Dichlorophenol	174	U	1660	174	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
2,6-Dinitrotoluene	232	U	1660	232	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Dichlorobenzidine, 3,3'-	154	U	3330	154	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
4,6-Dinitro-2-methylphenol	127	U	3330	127	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Acenaphthene	155	U	1660	155	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Anthracene	138	U	1660	138	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Acenaphthylene	147	U	1660	147	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Benzo[a]anthracene	140	U	1660	140	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Benzo[b]fluoranthene	125	U	1660	125	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Benzo[k]fluoranthene	193	U	1660	193	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Benzo[g,h,i]perylene	153	U	1660	153	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Benzo[a]pyrene	172	U	1660	172	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Di (2-ethylhexyl)phthalate	1660	U	3330	1660	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Bis(2-chloroethyl)ether	152	U	1660	152	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Chrysene	165	U	1660	165	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Dibutylphthalate	160	U	1660	160	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Dibenz(a,h)anthracene	127	U	1660	127	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Diethyl phthalate	153	U	1660	153	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Dimethyl phthalate	158	U	1660	158	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Fluoranthene	147	U	1660	147	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Fluorene	138	U	1660	138	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Hexachlorobenzene	162	U	1660	162	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Hexachlorobutadiene	138	U	1660	138	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Hexachlorocyclopentadiene	152	U	1660	152	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Hexachloroethane	172	U	1660	172	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Indeno[1,2,3-cd]pyrene	134	U	1660	134	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Isophorone	145	U	1660	145	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
N-Nitrosodi-n-butylamine	252	U	1660	252	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
N-Nitrosodiethylamine	219	U	1660	219	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
N-Nitrosodiphenylamine	186	U	1660	186	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
N-Nitrosopyrrolidine	141	U	1660	141	ug/Kg		01/31/22 07:24	02/02/22 04:38	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell22-Square 132-S-3-4-220127 **Lab Sample ID: 860-19939-1**
Date Collected: 01/27/22 09:46 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	159	U	1660	159	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Pentachlorophenol	121	U	3330	121	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Phenanthrene	165	U	1660	165	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Pyrene	146	U	1660	146	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Naphthalene	156	U	1660	156	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
2-Methylnaphthalene	451	U	1660	451	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Nitrobenzene	185	U	1660	185	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Benzidine	121	U	3330	121	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Phenol	0.149	U	3.33	0.149	mg/Kg		01/31/22 07:24	02/02/22 04:38	10
N-Nitrosodimethylamine	167	U	1660	167	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Atrazine	165	U *	3330	165	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Thiophene, tetrahydro-, 1,1-dioxide	3320	U	3330	3320	ug/Kg		01/31/22 07:24	02/02/22 04:38	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*6.65*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 07:24*	*02/02/22 04:38*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*30 - 115*	*01/31/22 07:24*	*02/02/22 04:38*	*10*
2-Fluorophenol	*89*		*25 - 121*	*01/31/22 07:24*	*02/02/22 04:38*	*10*
2,4,6-Tribromophenol	*113*		*19 - 122*	*01/31/22 07:24*	*02/02/22 04:38*	*10*
Nitrobenzene-d5	*76*		*23 - 129*	*01/31/22 07:24*	*02/02/22 04:38*	*10*
Phenol-d5 (Surr)	*86*		*24 - 113*	*01/31/22 07:24*	*02/02/22 04:38*	*10*
p-Terphenyl-d14 (Surr)	*102*		*18 - 137*	*01/31/22 07:24*	*02/02/22 04:38*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 22:37	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 22:37	1
OII Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*65 - 130*	*02/02/22 10:33*	*02/02/22 22:37*	*1*
o-Terphenyl (Surr)	*78*		*65 - 130*	*02/02/22 10:33*	*02/02/22 22:37*	*1*

Method: 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		01/29/22 11:03	01/31/22 12:04	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Endrin aldehyde	0.247	U *	0.832	0.247	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/29/22 11:03	01/31/22 12:04	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell22-Square 132-S-3-4-220127 **Lab Sample ID: 860-19939-1**
Date Collected: 01/27/22 09:46 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Heptachlor epoxide	0.245	U	0.832	0.245	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/29/22 11:03	01/31/22 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*35 - 135*	*01/29/22 11:03*	*01/31/22 12:04*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*25 - 143*	*01/29/22 11:03*	*01/31/22 12:04*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:09	1
Aroclor 1221	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:09	1
Aroclor 1232	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:09	1
Aroclor 1242	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:09	1
Aroclor 1248	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:09	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:09	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*35 - 140*	*01/29/22 11:03*	*01/31/22 19:09*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*37 - 142*	*01/29/22 11:03*	*01/31/22 19:09*	*1*

Method: 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	0.0209	U	0.0921	0.0209	mg/Kg		02/05/22 11:25	02/10/22 15:18	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0396	U	0.184	0.0396	mg/Kg		02/05/22 11:25	02/10/22 15:18	1
2,4,6-Trinitrotoluene	0.0283	U	0.0921	0.0283	mg/Kg		02/05/22 11:25	02/10/22 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*103*		*83 - 122*	*02/05/22 11:25*	*02/10/22 15:18*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.81**	**J**	10.1	3.59	mg/Kg		02/01/22 20:42	02/02/22 23:27	1
Nitrate as N	**10.2**		1.01	0.110	mg/Kg		02/01/22 20:42	02/02/22 23:27	1
Fluoride	**5.84**		5.07	1.01	mg/Kg		02/01/22 20:42	02/02/22 23:27	1
Nitrite as N	**0.427**	**J**	1.01	0.0507	mg/Kg		02/01/22 20:42	02/02/22 23:27	1
Nitrate Nitrite as N	**10.6**		1.01	0.110	mg/Kg		02/01/22 20:42	02/02/22 23:27	1
Sulfate	**373**		10.1	4.38	mg/Kg		02/01/22 20:42	02/02/22 23:27	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0822	U	0.499	0.0822	ug/Kg		02/03/22 17:49	02/08/22 20:20	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.215	U	0.748	0.215	ug/Kg		02/10/22 11:04	02/16/22 14:17	1
Perfluorohexanesulfonic acid (PFHxS)	0.262	U	0.748	0.262	ug/Kg		02/10/22 11:04	02/16/22 14:17	1
Perfluorooctanesulfonic acid (PFOS)	0.131	U	0.748	0.131	ug/Kg		02/10/22 11:04	02/16/22 14:17	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell22-Square 132-S-3-4-220127 **Lab Sample ID: 860-19939-1**
Date Collected: 01/27/22 09:46 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	02/10/22 11:04	02/16/22 14:17	1
13C8 PFOS	105		70 - 130	02/10/22 11:04	02/16/22 14:17	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.150	U	1.89	0.150	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Arsenic	**2.24**	**J**	3.77	0.582	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Barium	**337**		3.77	0.327	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Beryllium	0.175	U	1.89	0.175	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Cadmium	0.109	U	1.89	0.109	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Chromium	**3.40**	**J**	3.77	0.256	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Copper	**1.42**	**J**	3.77	0.246	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Iron	**2620**		18.9	2.21	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Manganese	**31.3**		1.89	0.240	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Lead	**1.62**	**J**	1.89	0.183	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Antimony	0.112	U	1.89	0.112	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Selenium	0.468	U	1.89	0.468	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Thallium	0.225	U	1.89	0.225	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Uranium	**0.256**	**J**	0.943	0.0564	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Zinc	**8.38**		3.77	0.418	mg/Kg		02/03/22 09:33	02/03/22 17:01	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00679**	**J**	0.0189	0.00363	mg/Kg		02/01/22 08:30	02/01/22 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**31.3**	**J**	59.3	29.4	ug/Kg		02/09/22 15:50	02/09/22 17:30	1
Phenols, Total	0.0600	U *	0.100	0.0600	mg/Kg		02/22/22 10:19	02/24/22 11:31	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**	**HF**			SU			02/09/22 14:16	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**238**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**0.473**		0.113	0.123	1.00	0.0722	pCi/g	02/07/22 10:12	02/28/22 11:47	1
Radium-228	0.108	U	0.143	0.143		0.207	pCi/g	02/07/22 10:12	02/28/22 11:47	1
Combined Radium 226 + 228	**0.581**		0.182	0.189		0.207	pCi/g	02/07/22 10:12	02/28/22 11:47	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 200-S-3-4-220127 **Lab Sample ID: 860-19939-2**
Date Collected: 01/27/22 08:58 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.716	U	4.90	0.716	ug/Kg			01/31/22 20:30	1
Chloromethane	1.18	U	4.90	1.18	ug/Kg			01/31/22 20:30	1
Vinyl chloride	0.588	U	4.90	0.588	ug/Kg			01/31/22 20:30	1
Bromomethane	1.08	U	4.90	1.08	ug/Kg			01/31/22 20:30	1
Trichlorofluoromethane	0.490	U	4.90	0.490	ug/Kg			01/31/22 20:30	1
Acrolein	8.43	U	49.0	8.43	ug/Kg			01/31/22 20:30	1
1,1-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			01/31/22 20:30	1
trans-1,2-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			01/31/22 20:30	1
Methyl tert-butyl ether	0.598	U	4.90	0.598	ug/Kg			01/31/22 20:30	1
1,3-Dichlorobenzene	0.304	U	4.90	0.304	ug/Kg			01/31/22 20:30	1
Methylene Chloride	4.90	U	24.5	4.90	ug/Kg			01/31/22 20:30	1
Acrylonitrile	3.53	U	49.0	3.53	ug/Kg			01/31/22 20:30	1
cis-1,2-Dichloroethene	0.559	U	4.90	0.559	ug/Kg			01/31/22 20:30	1
Carbon tetrachloride	0.500	U	4.90	0.500	ug/Kg			01/31/22 20:30	1
Benzene	0.618	U	4.90	0.618	ug/Kg			01/31/22 20:30	1
1,2-Dichloroethane	0.510	U	4.90	0.510	ug/Kg			01/31/22 20:30	1
Trichloroethene	0.275	U	4.90	0.275	ug/Kg			01/31/22 20:30	1
1,1,1-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			01/31/22 20:30	1
1,1-Dichloroethane	0.578	U	4.90	0.578	ug/Kg			01/31/22 20:30	1
1,2-Dichloropropane	0.490	U	4.90	0.490	ug/Kg			01/31/22 20:30	1
1,4-Dioxane	18.6	U	98.0	18.6	ug/Kg			01/31/22 20:30	1
Chloroform	0.853	U	4.90	0.853	ug/Kg			01/31/22 20:30	1
Bromodichloromethane	0.196	U	4.90	0.196	ug/Kg			01/31/22 20:30	1
1,1-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			01/31/22 20:30	1
cis-1,3-Dichloropropene	0.441	U	4.90	0.441	ug/Kg			01/31/22 20:30	1
Toluene	0.882	U	4.90	0.882	ug/Kg			01/31/22 20:30	1
trans-1,3-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			01/31/22 20:30	1
1,1,2-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			01/31/22 20:30	1
Tetrachloroethene	0.725	U	4.90	0.725	ug/Kg			01/31/22 20:30	1
1,3-Dichloropropene, Total	0.510	U	4.90	0.510	ug/Kg			01/31/22 20:30	1
1,2-Dibromoethane	0.294	U	4.90	0.294	ug/Kg			01/31/22 20:30	1
Monochlorobenzene	0.294	U	4.90	0.294	ug/Kg			01/31/22 20:30	1
Ethylbenzene	0.441	U	4.90	0.441	ug/Kg			01/31/22 20:30	1
Xylenes, Total	0.490	U	9.80	0.490	ug/Kg			01/31/22 20:30	1
Styrene	0.294	U	4.90	0.294	ug/Kg			01/31/22 20:30	1
Tribromomethane	0.500	U	4.90	0.500	ug/Kg			01/31/22 20:30	1
1,1,2,2-Tetrachloroethane	0.373	U	4.90	0.373	ug/Kg			01/31/22 20:30	1
1,4-Dichlorobenzene	0.314	U	4.90	0.314	ug/Kg			01/31/22 20:30	1
1,2-Dichlorobenzene	0.245	U	4.90	0.245	ug/Kg			01/31/22 20:30	1
1,2,4-Trichlorobenzene	0.951	U	4.90	0.951	ug/Kg			01/31/22 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 152*		*01/31/22 20:30*	*1*
Toluene-d8 (Surr)	*92*		*65 - 139*		*01/31/22 20:30*	*1*
Dibromofluoromethane (Surr)	*97*		*50 - 136*		*01/31/22 20:30*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*01/31/22 20:30*	*1*

Method: 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	0.00498	0.00249	mg/Kg		02/01/22 11:08	02/03/22 03:20	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 200-S-3-4-220127 **Lab Sample ID: 860-19939-2**
Date Collected: 01/27/22 08:58 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*63 - 144*	*02/01/22 11:08*	*02/03/22 03:20*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.9	U	65.6	11.9	ug/Kg		02/10/22 13:33	02/14/22 21:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*97*		*30 - 164*	*02/10/22 13:33*	*02/14/22 21:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	170	U	1630	170	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
1,2,4,5-Tetrachlorobenzene	161	U	1630	161	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
1-Methylnaphthalene	261	U	1630	261	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
bis (2-chloroisopropyl) ether	174	U	1630	174	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
2,4,5-Trichlorophenol	186	U	1630	186	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
2,4,6-Trichlorophenol	154	U	1630	154	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
2,4-Dinitrotoluene	125	U	1630	125	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Dinitrophenols	237	U	3260	237	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
2,4-Dichlorophenol	171	U	1630	171	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
2,6-Dinitrotoluene	228	U	1630	228	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Dichlorobenzidine, 3,3'-	151	U	3260	151	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
4,6-Dinitro-2-methylphenol	124	U	3260	124	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Acenaphthene	152	U	1630	152	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Anthracene	135	U	1630	135	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Acenaphthylene	144	U	1630	144	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Benzo[a]anthracene	138	U	1630	138	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Benzo[b]fluoranthene	123	U	1630	123	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Benzo[k]fluoranthene	189	U	1630	189	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Benzo[g,h,i]perylene	150	U	1630	150	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Benzo[a]pyrene	168	U	1630	168	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Di (2-ethylhexyl)phthalate	1630	U	3260	1630	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Bis(2-chloroethyl)ether	149	U	1630	149	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Chrysene	162	U	1630	162	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Dibutylphthalate	157	U	1630	157	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Dibenz(a,h)anthracene	124	U	1630	124	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Diethyl phthalate	150	U	1630	150	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Dimethyl phthalate	155	U	1630	155	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Fluoranthene	144	U	1630	144	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Fluorene	135	U	1630	135	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Hexachlorobenzene	159	U	1630	159	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Hexachlorobutadiene	135	U	1630	135	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Hexachlorocyclopentadiene	149	U	1630	149	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Hexachloroethane	169	U	1630	169	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Indeno[1,2,3-cd]pyrene	131	U	1630	131	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Isophorone	142	U	1630	142	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
N-Nitrosodi-n-butylamine	247	U	1630	247	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
N-Nitrosodiethylamine	214	U	1630	214	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
N-Nitrosodiphenylamine	182	U	1630	182	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
N-Nitrosopyrrolidine	138	U	1630	138	ug/Kg		01/31/22 07:24	02/02/22 05:02	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 200-S-3-4-220127 **Lab Sample ID: 860-19939-2**
Date Collected: 01/27/22 08:58 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	155	U	1630	155	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Pentachlorophenol	119	U	3260	119	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Phenanthrene	162	U	1630	162	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Pyrene	143	U	1630	143	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Naphthalene	153	U	1630	153	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
2-Methylnaphthalene	442	U	1630	442	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Nitrobenzene	181	U	1630	181	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Benzidine	118	U	3260	118	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Phenol	0.146	U	3.26	0.146	mg/Kg		01/31/22 07:24	02/02/22 05:02	10
N-Nitrosodimethylamine	164	U	1630	164	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Atrazine	161	U *	3260	161	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Thiophene, tetrahydro-, 1,1-dioxide	3260	U	3260	3260	ug/Kg		01/31/22 07:24	02/02/22 05:02	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*6.52*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 07:24*	*02/02/22 05:02*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*30 - 115*	*01/31/22 07:24*	*02/02/22 05:02*	*10*
2-Fluorophenol	*96*		*25 - 121*	*01/31/22 07:24*	*02/02/22 05:02*	*10*
2,4,6-Tribromophenol	*111*		*19 - 122*	*01/31/22 07:24*	*02/02/22 05:02*	*10*
Nitrobenzene-d5	*82*		*23 - 129*	*01/31/22 07:24*	*02/02/22 05:02*	*10*
Phenol-d5 (Surr)	*91*		*24 - 113*	*01/31/22 07:24*	*02/02/22 05:02*	*10*
p-Terphenyl-d14 (Surr)	*105*		*18 - 137*	*01/31/22 07:24*	*02/02/22 05:02*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		02/02/22 10:33	02/02/22 22:57	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		02/02/22 10:33	02/02/22 22:57	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		02/02/22 10:33	02/02/22 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*65 - 130*	*02/02/22 10:33*	*02/02/22 22:57*	*1*
o-Terphenyl (Surr)	*78*		*65 - 130*	*02/02/22 10:33*	*02/02/22 22:57*	*1*

Method: 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		01/29/22 11:03	01/31/22 12:20	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Endosulfan sulfate	0.276	U	0.832	0.276	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Endrin	0.291	U	0.832	0.291	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Endrin aldehyde	0.247	U *	0.832	0.247	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/29/22 11:03	01/31/22 12:20	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 200-S-3-4-220127 **Lab Sample ID: 860-19939-2**
Date Collected: 01/27/22 08:58 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.562	U	0.832	0.562	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Heptachlor epoxide	0.245	U	0.832	0.245	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/29/22 11:03	01/31/22 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*35 - 135*	*01/29/22 11:03*	*01/31/22 12:20*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*25 - 143*	*01/29/22 11:03*	*01/31/22 12:20*	*1*

Method: 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		01/29/22 11:03	01/31/22 19:18	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:18	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:18	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:18	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:18	1
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:18	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*35 - 140*	*01/29/22 11:03*	*01/31/22 19:18*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*37 - 142*	*01/29/22 11:03*	*01/31/22 19:18*	*1*

Method: 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	0.0924	0.0210	mg/Kg		02/05/22 11:25	02/10/22 15:41	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0397	U	0.185	0.0397	mg/Kg		02/05/22 11:25	02/10/22 15:41	1
2,4,6-Trinitrotoluene	0.0284	U	0.0924	0.0284	mg/Kg		02/05/22 11:25	02/10/22 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*107*		*83 - 122*	*02/05/22 11:25*	*02/10/22 15:41*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.50	U	9.88	3.50	mg/Kg		02/01/22 20:43	02/03/22 01:02	1
Nitrate as N	**5.01**		0.988	0.107	mg/Kg		02/01/22 20:43	02/03/22 01:02	1
Fluoride	**2.06**	**J**	4.94	0.988	mg/Kg		02/01/22 20:43	02/03/22 01:02	1
Nitrite as N	**0.422**	**J**	0.988	0.0494	mg/Kg		02/01/22 20:43	02/03/22 01:02	1
Nitrate Nitrite as N	**5.43**		0.988	0.107	mg/Kg		02/01/22 20:43	02/03/22 01:02	1
Sulfate	**91.5**		9.88	4.27	mg/Kg		02/01/22 20:43	02/03/22 01:02	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0784	U	0.476	0.0784	ug/Kg		02/03/22 17:49	02/08/22 20:25	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.213	U	0.742	0.213	ug/Kg		02/10/22 11:04	02/16/22 14:25	1
Perfluorohexanesulfonic acid (PFHxS)	0.260	U	0.742	0.260	ug/Kg		02/10/22 11:04	02/16/22 14:25	1
Perfluorooctanesulfonic acid (PFOS)	0.130	U	0.742	0.130	ug/Kg		02/10/22 11:04	02/16/22 14:25	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 200-S-3-4-220127 Lab Sample ID: 860-19939-2

Date Collected: 01/27/22 08:58 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	105		57 - 153	02/10/22 11:04	02/16/22 14:25	1
13C8 PFOS	108		70 - 130	02/10/22 11:04	02/16/22 14:25	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.137	U	1.72	0.137	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Arsenic	**1.61**	**J**	3.45	0.532	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Barium	**37.6**		3.45	0.299	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Beryllium	0.160	U	1.72	0.160	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Cadmium	0.100	U	1.72	0.100	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Chromium	**2.79**	**J**	3.45	0.234	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Copper	**1.42**	**J**	3.45	0.225	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Iron	**3350**		17.2	2.02	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Manganese	**162**		1.72	0.219	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Lead	**2.31**		1.72	0.167	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Antimony	**0.108**	**J**	1.72	0.103	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Selenium	0.428	U	1.72	0.428	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Thallium	0.206	U	1.72	0.206	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Uranium	**0.127**	**J**	0.862	0.0515	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Zinc	**7.17**		3.45	0.382	mg/Kg		02/03/22 09:33	02/03/22 17:04	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00830**	**J**	0.0189	0.00363	mg/Kg		02/01/22 08:30	02/01/22 12:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	30.2	U	60.8	30.2	ug/Kg		02/09/22 15:50	02/09/22 17:31	1
Phenols, Total	0.0600	U *	0.100	0.0600	mg/Kg		02/22/22 10:19	02/24/22 11:39	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.0**	**HF**			SU			02/09/22 14:16	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**121**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**1.16**		0.223	0.262	1.00	0.137	pCi/g	02/07/22 10:12	02/28/22 11:46	1
Radium-228	0.174	U	0.264	0.265		0.409	pCi/g	02/07/22 10:12	02/28/22 11:46	1
Combined Radium 226 + 228	**1.34**		0.346	0.373		0.409	pCi/g	02/07/22 10:12	02/28/22 11:46	1

Surrogate Summary

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

Job ID: 860-19939-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(65-152)	(65-139)	(50-136)	(61-142)
860-19939-1	Cell22-Square 132-S-3-4-220127	98	95	95	113
860-19939-2	Cell20-Square 200-S-3-4-220127	101	92	97	109
LCS 560-192708/3	Lab Control Sample	97	95	97	116
MB 560-192708/7	Method Blank	93	94	94	109

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID				
LCSD 560-192708/4	Lab Control Sample Dup				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCA
Lab Sample ID	Client Sample ID	(63-144)
860-19939-1	Cell22-Square 132-S-3-4-220127	103
860-19939-2	Cell20-Square 200-S-3-4-220127	105
LCS 860-40051/11	Lab Control Sample	101
LCSD 860-40051/12	Lab Control Sample Dup	102
MB 860-40051/16	Method Blank	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19939-1	Cell22-Square 132-S-3-4-220127	87
860-19939-2	Cell20-Square 200-S-3-4-220127	97
LCS 400-566137/2-A	Lab Control Sample	98
MB 400-566137/1-A	Method Blank	95

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Surrogate Legend
TPP = Triphenylphosphate

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	FBP (30-115)	2FP (25-121)	TBP (19-122)	NBZ (23-129)	PHL (24-113)	TPHd14 (18-137)
860-19939-1	Cell22-Square 132-S-3-4-220127	90	89	113	76	86	102
860-19939-2	Cell20-Square 200-S-3-4-220127	90	96	111	82	91	105
LCS 860-39525/2-A	Lab Control Sample	79	78	87	74	77	82
LCSD 860-39525/3-A	Lab Control Sample Dup	97	91	106	87	90	99
MB 860-39525/1-A	Method Blank	81	82	92	84	80	91

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: 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 (65-130)	OTPH1 (65-130)
860-19939-1	Cell22-Square 132-S-3-4-220127	88	78
860-19939-2	Cell20-Square 200-S-3-4-220127	88	78
LCS 860-39790/2-A - RA	Lab Control Sample	107	100
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	110	103
MB 860-39790/1-A - RA	Method Blank	105	97

Surrogate Legend
1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

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)
860-19939-1	Cell22-Square 132-S-3-4-220127	81	93
860-19939-2	Cell20-Square 200-S-3-4-220127	83	94
860-19939-2 MS	Cell20-Square 200-S-3-4-220127	63	95
860-19939-2 MSD	Cell20-Square 200-S-3-4-220127	83	96
LCS 860-39480/2-A	Lab Control Sample	101	123
LCSD 860-39480/3-A	Lab Control Sample Dup	100	112
MB 860-39480/1-A	Method Blank	96	108

Surrogate Legend
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

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)								
860-19939-1	Cell22-Square 132-S-3-4-220127	67	80								
860-19939-2	Cell20-Square 200-S-3-4-220127	66	83								
LCS 860-39480/4-A	Lab Control Sample	84	83								
LCSD 860-39480/5-A	Lab Control Sample Dup	79	80								
MB 860-39480/1-A	Method Blank	75	81								

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)									
860-19939-1	Cell22-Square 132-S-3-4-220127	103									
860-19939-2	Cell20-Square 200-S-3-4-220127	107									
LCS 280-565272/2-A	Lab Control Sample	99									
MB 280-565272/1-A	Method Blank	105									

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)								
860-19939-1	Cell22-Square 132-S-3-4-220127	103	105								
860-19939-2	Cell20-Square 200-S-3-4-220127	105	108								
860-19939-2 MS	Cell20-Square 200-S-3-4-220127	102	109								
860-19939-2 MSD	Cell20-Square 200-S-3-4-220127	103	110								
DLCK 280-556129/13	Lab Control Sample	98	105								
LCS 280-565681/2-A	Lab Control Sample	104	108								
MB 280-565681/1-A	Method Blank	104	107								

Surrogate Legend

C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS

QC Sample Results

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

Job ID: 860-19939-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192708/7
Matrix: Solid
Analysis Batch: 192708

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/31/22 17:31	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/31/22 17:31	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/31/22 17:31	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/31/22 17:31	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/31/22 17:31	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/31/22 17:31	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/31/22 17:31	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/31/22 17:31	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/31/22 17:31	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/31/22 17:31	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/31/22 17:31	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/31/22 17:31	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/31/22 17:31	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/31/22 17:31	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/31/22 17:31	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/31/22 17:31	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/31/22 17:31	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/31/22 17:31	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/31/22 17:31	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/31/22 17:31	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/31/22 17:31	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/31/22 17:31	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/31/22 17:31	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/31/22 17:31	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/31/22 17:31	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/31/22 17:31	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/31/22 17:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*65 - 152*		*01/31/22 17:31*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/31/22 17:31*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 136*		*01/31/22 17:31*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*01/31/22 17:31*	*1*

QC Sample Results

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

Job ID: 860-19939-1

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

Lab Sample ID: LCS 560-192708/3
Matrix: Solid
Analysis Batch: 192708

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	34.36		ug/Kg		86	13 - 130
Chloromethane	40.0	27.10		ug/Kg		68	61 - 137
Vinyl chloride	40.0	34.62		ug/Kg		87	65 - 139
Bromomethane	40.0	33.04		ug/Kg		83	57 - 155
Trichlorofluoromethane	40.0	33.86		ug/Kg		85	68 - 146
Acrolein	395	400.4		ug/Kg		101	20 - 150
1,1-Dichloroethene	40.0	36.01		ug/Kg		90	70 - 130
trans-1,2-Dichloroethene	40.0	36.31		ug/Kg		91	70 - 132
Methyl tert-butyl ether	40.0	37.80		ug/Kg		94	70 - 130
1,3-Dichlorobenzene	40.0	35.81		ug/Kg		90	70 - 130
Methylene Chloride	40.0	35.93		ug/Kg		90	61 - 150
Acrylonitrile	400	383.7		ug/Kg		96	66 - 137
cis-1,2-Dichloroethene	40.0	37.19		ug/Kg		93	70 - 130
Carbon tetrachloride	40.0	32.72		ug/Kg		82	70 - 136
Benzene	40.0	37.15		ug/Kg		93	70 - 131
1,2-Dichloroethane	40.0	33.42		ug/Kg		84	70 - 130
Trichloroethene	40.0	34.77		ug/Kg		87	70 - 130
1,1,1-Trichloroethane	40.0	34.21		ug/Kg		86	70 - 132
1,1-Dichloroethane	40.0	35.87		ug/Kg		90	70 - 130
1,2-Dichloropropane	40.0	37.59		ug/Kg		94	70 - 130
1,4-Dioxane	800	826.6		ug/Kg		103	10 - 150
Chloroform	40.0	34.91		ug/Kg		87	70 - 130
Bromodichloromethane	40.0	36.92		ug/Kg		92	70 - 130
1,1-Dichloropropene	40.0	37.35		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	34.37		ug/Kg		86	70 - 130
Toluene	40.0	33.36		ug/Kg		83	70 - 130
trans-1,3-Dichloropropene	40.0	36.54		ug/Kg		91	70 - 131
1,1,2-Trichloroethane	40.0	35.23		ug/Kg		88	70 - 130
Tetrachloroethene	40.0	29.92		ug/Kg		75	70 - 130
1,3-Dichloropropene, Total	80.0	70.91		ug/Kg		89	
1,2-Dibromoethane	40.0	34.45		ug/Kg		86	70 - 130
Monochlorobenzene	40.0	32.86		ug/Kg		82	70 - 130
Ethylbenzene	40.0	36.53		ug/Kg		91	70 - 130
Xylenes, Total	80.0	76.14		ug/Kg		95	70 - 130
Styrene	40.0	37.34		ug/Kg		93	70 - 130
Tribromomethane	40.0	30.61		ug/Kg		77	59 - 137
1,1,2,2-Tetrachloroethane	40.0	40.95		ug/Kg		102	70 - 130
1,4-Dichlorobenzene	40.0	34.59		ug/Kg		86	70 - 130
1,2-Dichlorobenzene	40.0	36.35		ug/Kg		91	70 - 130
1,2,4-Trichlorobenzene	40.0	37.86		ug/Kg		95	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*97*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 560-192708/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192708

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			40.0	33.29		ug/Kg					
Chloromethane			40.0	28.33		ug/Kg					
Vinyl chloride			40.0	32.66		ug/Kg					
Bromomethane			40.0	31.81		ug/Kg					
Trichlorofluoromethane			40.0	32.59		ug/Kg					
Acrolein			395	377.9		ug/Kg					
1,1-Dichloroethene			40.0	34.97		ug/Kg					
trans-1,2-Dichloroethene			40.0	35.70		ug/Kg					
Methyl tert-butyl ether			40.0	37.35		ug/Kg					
1,3-Dichlorobenzene			40.0	34.31		ug/Kg					
Methylene Chloride			40.0	34.74		ug/Kg					
Acrylonitrile			400	369.0		ug/Kg					
cis-1,2-Dichloroethene			40.0	36.26		ug/Kg					
Carbon tetrachloride			40.0	32.07		ug/Kg					
Benzene			40.0	36.36		ug/Kg					
1,2-Dichloroethane			40.0	32.07		ug/Kg					
Trichloroethene			40.0	33.88		ug/Kg					
1,1,1-Trichloroethane			40.0	32.99		ug/Kg					
1,1-Dichloroethane			40.0	35.18		ug/Kg					
1,2-Dichloropropane			40.0	36.68		ug/Kg					
1,4-Dioxane			800	795.1		ug/Kg					
Chloroform			40.0	34.02		ug/Kg					
Bromodichloromethane			40.0	35.77		ug/Kg					
1,1-Dichloropropene			40.0	36.69		ug/Kg					
cis-1,3-Dichloropropene			40.0	33.41		ug/Kg					
Toluene			40.0	32.50		ug/Kg					
trans-1,3-Dichloropropene			40.0	35.22		ug/Kg					
1,1,2-Trichloroethane			40.0	33.98		ug/Kg					
Tetrachloroethene			40.0	28.74		ug/Kg					
1,3-Dichloropropene, Total			80.0	68.63		ug/Kg					
1,2-Dibromoethane			40.0	33.01		ug/Kg					
Monochlorobenzene			40.0	31.64		ug/Kg					
Ethylbenzene			40.0	35.09		ug/Kg					
Xylenes, Total			80.0	73.57		ug/Kg					
Styrene			40.0	36.06		ug/Kg					
Tribromomethane			40.0	29.33		ug/Kg					
1,1,2,2-Tetrachloroethane			40.0	38.63		ug/Kg					
1,4-Dichlorobenzene			40.0	33.25		ug/Kg					
1,2-Dichlorobenzene			40.0	34.68		ug/Kg					
1,2,4-Trichlorobenzene			40.0	35.73		ug/Kg					

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)			
Toluene-d8 (Surr)			
Dibromofluoromethane (Surr)			
4-Bromofluorobenzene (Surr)			

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-40051/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

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			02/03/22 00:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*02/03/22 00:47*	*1*

Lab Sample ID: LCS 860-40051/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.05356		mg/Kg		107	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*

Lab Sample ID: LCSD 860-40051/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.05670		mg/Kg		113	65 - 135	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-566137/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/10/22 13:25	02/14/22 17:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*95*		*30 - 164*	*02/10/22 13:25*	*02/14/22 17:25*	*1*

Lab Sample ID: LCS 400-566137/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	313.3		ug/Kg		94	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*98*		*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39525/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

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		01/31/22 07:24	01/31/22 15:17	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/31/22 07:24	01/31/22 15:17	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39525/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/31/22 07:24	01/31/22 15:17	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.667*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 07:24*	*01/31/22 15:17*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*30 - 115*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
2-Fluorophenol	*82*		*25 - 121*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
2,4,6-Tribromophenol	*92*		*19 - 122*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
Nitrobenzene-d5	*84*		*23 - 129*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
Phenol-d5 (Surr)	*80*		*24 - 113*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
p-Terphenyl-d14 (Surr)	*91*		*18 - 137*	*01/31/22 07:24*	*01/31/22 15:17*	*1*

Lab Sample ID: LCS 860-39525/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	758.3		ug/Kg		57	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	828.6		ug/Kg		62	35 - 135
1-Methylnaphthalene	1330	792.3		ug/Kg		59	38 - 127
bis (2-chloroisopropyl) ether	1330	552.7		ug/Kg		41	25 - 124
2,4,5-Trichlorophenol	1330	864.1		ug/Kg		65	40 - 135
2,4,6-Trichlorophenol	1330	851.3		ug/Kg		64	39 - 139
2,4-Dinitrotoluene	1330	820.1		ug/Kg		62	48 - 131
Dinitrophenols	1330	703.9		ug/Kg		53	19 - 131
2,4-Dichlorophenol	1330	870.3		ug/Kg		65	36 - 135
2,6-Dinitrotoluene	1330	768.3		ug/Kg		58	42 - 136
Dichlorobenzidine, 3,3'-	1330	668.5		ug/Kg		50	35 - 134
4,6-Dinitro-2-methylphenol	1330	776.6		ug/Kg		58	30 - 146
Acenaphthene	1330	752.5		ug/Kg		56	37 - 131
Anthracene	1330	805.2		ug/Kg		60	39 - 139
Acenaphthylene	1330	766.0		ug/Kg		57	39 - 129
Benzo[a]anthracene	1330	792.5		ug/Kg		59	44 - 135
Benzo[b]fluoranthene	1330	791.7		ug/Kg		59	40 - 153
Benzo[k]fluoranthene	1330	840.9		ug/Kg		63	33 - 156
Benzo[g,h,i]perylene	1330	730.7		ug/Kg		55	40 - 153
Benzo[a]pyrene	1330	781.0		ug/Kg		59	43 - 153
Di (2-ethylhexyl)phthalate	1330	865.0		ug/Kg		65	46 - 145
Bis(2-chloroethyl)ether	1330	641.8		ug/Kg		48	33 - 127
Chrysene	1330	753.3		ug/Kg		56	42 - 135
Dibutylphthalate	1330	792.2		ug/Kg		59	43 - 142
Dibenz(a,h)anthracene	1330	741.2		ug/Kg		56	41 - 155
Diethyl phthalate	1330	755.0		ug/Kg		57	45 - 131
Dimethyl phthalate	1330	748.1		ug/Kg		56	43 - 132

QC Sample Results

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

Job ID: 860-19939-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39525/2-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	1330	772.9		ug/Kg		58	41 - 138
Fluorene	1330	777.0		ug/Kg		58	41 - 131
Hexachlorobenzene	1330	800.2		ug/Kg		60	36 - 142
Hexachlorobutadiene	1330	835.3		ug/Kg		63	35 - 129
Hexachlorocyclopentadiene	1330	975.8		ug/Kg		73	16 - 106
Hexachloroethane	1330	710.2		ug/Kg		53	36 - 121
Indeno[1,2,3-cd]pyrene	1330	741.3		ug/Kg		56	39 - 154
Isophorone	1330	743.4		ug/Kg		56	36 - 128
N-Nitrosodi-n-butylamine	1330	766.3		ug/Kg		57	34 - 135
N-Nitrosodiethylamine	1330	801.8		ug/Kg		60	36 - 127
N-Nitrosodiphenylamine	1330	800.6		ug/Kg		60	27 - 155
N-Nitrosopyrrolidine	1330	762.5		ug/Kg		57	38 - 136
Pentachlorobenzene	1330	767.7		ug/Kg		58	38 - 136
Pentachlorophenol	1330	870.3		ug/Kg		65	14 - 148
Phenanthrene	1330	777.9		ug/Kg		58	37 - 139
Pyrene	1330	841.1		ug/Kg		63	42 - 138
Naphthalene	1330	792.2		ug/Kg		59	35 - 128
2-Methylnaphthalene	1330	796.2		ug/Kg		60	36 - 126
Nitrobenzene	1330	779.9		ug/Kg		58	32 - 129
Benzidine	1330	247.7	J	ug/Kg		19	12 - 112
Phenol	1.33	0.7528		mg/Kg		56	34 - 127
N-Nitrosodimethylamine	1330	767.2		ug/Kg		58	27 - 126
Atrazine	1330	561.2		ug/Kg		42	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1330	638.5		ug/Kg		48	30 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*30 - 115*
2-Fluorophenol	*78*		*25 - 121*
2,4,6-Tribromophenol	*87*		*19 - 122*
Nitrobenzene-d5	*74*		*23 - 129*
Phenol-d5 (Surr)	*77*		*24 - 113*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*

Lab Sample ID: LCSD 860-39525/3-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	1330	899.2		ug/Kg		67	20 - 157	17	30
1,2,4,5-Tetrachlorobenzene	1330	991.4		ug/Kg		74	35 - 135	18	30
1-Methylnaphthalene	1330	913.6		ug/Kg		69	38 - 127	14	30
bis (2-chloroisopropyl) ether	1330	652.6		ug/Kg		49	25 - 124	17	30
2,4,5-Trichlorophenol	1330	1068		ug/Kg		80	40 - 135	21	30
2,4,6-Trichlorophenol	1330	1027		ug/Kg		77	39 - 139	19	30
2,4-Dinitrotoluene	1330	996.4		ug/Kg		75	48 - 131	19	30
Dinitrophenols	1330	865.9		ug/Kg		65	19 - 131	21	40
2,4-Dichlorophenol	1330	1028		ug/Kg		77	36 - 135	17	30

QC Sample Results

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

Job ID: 860-19939-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39525/3-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39525

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,6-Dinitrotoluene			1330	946.2		ug/Kg		71	42 - 136	21	30
Dichlorobenzidine, 3,3'-			1330	749.6		ug/Kg		56	35 - 134	11	40
4,6-Dinitro-2-methylphenol			1330	984.9		ug/Kg		74	30 - 146	24	40
Acenaphthene			1330	925.8		ug/Kg		69	37 - 131	21	30
Anthracene			1330	966.2		ug/Kg		72	39 - 139	18	30
Acenaphthylene			1330	934.2		ug/Kg		70	39 - 129	20	30
Benzo[a]anthracene			1330	954.4		ug/Kg		72	44 - 135	19	30
Benzo[b]fluoranthene			1330	953.0		ug/Kg		71	40 - 153	18	30
Benzo[k]fluoranthene			1330	1007		ug/Kg		76	33 - 156	18	30
Benzo[g,h,i]perylene			1330	908.8		ug/Kg		68	40 - 153	22	30
Benzo[a]pyrene			1330	945.4		ug/Kg		71	43 - 153	19	30
Di (2-ethylhexyl)phthalate			1330	1053		ug/Kg		79	46 - 145	20	30
Bis(2-chloroethyl)ether			1330	767.8		ug/Kg		58	33 - 127	18	30
Chrysene			1330	916.1		ug/Kg		69	42 - 135	20	30
Dibutylphthalate			1330	965.3		ug/Kg		72	43 - 142	20	30
Dibenz(a,h)anthracene			1330	887.4		ug/Kg		67	41 - 155	18	30
Diethyl phthalate			1330	892.3		ug/Kg		67	45 - 131	17	30
Dimethyl phthalate			1330	916.7		ug/Kg		69	43 - 132	20	30
Fluoranthene			1330	900.5		ug/Kg		68	41 - 138	15	30
Fluorene			1330	934.1		ug/Kg		70	41 - 131	18	30
Hexachlorobenzene			1330	969.6		ug/Kg		73	36 - 142	19	30
Hexachlorobutadiene			1330	970.6		ug/Kg		73	35 - 129	15	30
Hexachlorocyclopentadiene			1330	1156		ug/Kg		87	16 - 106	17	30
Hexachloroethane			1330	842.6		ug/Kg		63	36 - 121	17	30
Indeno[1,2,3-cd]pyrene			1330	879.3		ug/Kg		66	39 - 154	17	30
Isophorone			1330	852.9		ug/Kg		64	36 - 128	14	30
N-Nitrosodi-n-butylamine			1330	896.9		ug/Kg		67	34 - 135	16	30
N-Nitrosodiethylamine			1330	946.7		ug/Kg		71	36 - 127	17	30
N-Nitrosodiphenylamine			1330	938.1		ug/Kg		70	27 - 155	16	30
N-Nitrosopyrrolidine			1330	854.3		ug/Kg		64	38 - 136	11	30
Pentachlorobenzene			1330	963.6		ug/Kg		72	38 - 136	23	30
Pentachlorophenol			1330	985.6		ug/Kg		74	14 - 148	12	40
Phenanthrene			1330	932.3		ug/Kg		70	37 - 139	18	30
Pyrene			1330	1052		ug/Kg		79	42 - 138	22	30
Naphthalene			1330	918.4		ug/Kg		69	35 - 128	15	30
2-Methylnaphthalene			1330	934.0		ug/Kg		70	36 - 126	16	30
Nitrobenzene			1330	917.7		ug/Kg		69	32 - 129	16	30
Benzidine			1330	348.0		ug/Kg		26	12 - 112	34	40
Phenol			1.33	0.8851		mg/Kg		66	34 - 127	16	40
N-Nitrosodimethylamine			1330	885.8		ug/Kg		66	27 - 126	14	30
Atrazine			1330	922.0	*	ug/Kg		69	18 - 134	49	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	747.1		ug/Kg		56	30 - 130	16	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*97*		*30 - 115*
2-Fluorophenol	*91*		*25 - 121*
2,4,6-Tribromophenol	*106*		*19 - 122*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39525/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5	87		23 - 129
Phenol-d5 (Surr)	90		24 - 113
p-Terphenyl-d14 (Surr)	99		18 - 137

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

Lab Sample ID: MB 860-39790/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Diesel Range Organics (Over C10-C28) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
OII Range Organics (Over C28-C36) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane - RA	105		65 - 130	02/01/22 12:48	02/02/22 17:41	1
o-Terphenyl (Surr) - RA	97		65 - 130	02/01/22 12:48	02/02/22 17:41	1

Lab Sample ID: LCS 860-39790/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10 - RA			994	1024		mg/Kg		103	70 - 135		
Diesel Range Organics (Over C10-C28) - RA			996	974.9		mg/Kg		98	70 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane - RA	107		65 - 130
o-Terphenyl (Surr) - RA	100		65 - 130

Lab Sample ID: LCSD 860-39790/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10 - RA			994	1028		mg/Kg		103	70 - 135	0	35
Diesel Range Organics (Over C10-C28) - RA			996	1002		mg/Kg		101	70 - 135	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane - RA	110		65 - 130
o-Terphenyl (Surr) - RA	103		65 - 130

QC Sample Results

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

Job ID: 860-19939-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-39480/1-A
Matrix: Solid
Analysis Batch: 39536

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39480

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/29/22 11:03	01/31/22 10:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*35 - 135*	*01/29/22 11:03*	*01/31/22 10:45*	*1*
DCB Decachlorobiphenyl (Surr)	*108*		*25 - 143*	*01/29/22 11:03*	*01/31/22 10:45*	*1*

Lab Sample ID: LCS 860-39480/2-A
Matrix: Solid
Analysis Batch: 39536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	16.7	20.83		ug/Kg		125	13 - 192
Aldrin	16.7	20.27		ug/Kg		122	30 - 152
Hexachlorocyclohexane, alpha-	16.7	19.40		ug/Kg		116	29 - 160
Hexachlorocyclohexane, beta-	16.7	21.37		ug/Kg		128	30 - 155
Hexachlorocyclohexane, delta-	16.7	19.40		ug/Kg		116	20 - 161
Dieldrin	16.7	21.61		ug/Kg		130	33 - 153
Endosulfan I	16.7	20.94		ug/Kg		126	30 - 151
Endosulfan II	16.7	19.27		ug/Kg		116	27 - 153
Endosulfan sulfate	16.7	20.37		ug/Kg		122	15 - 170
Endrin	16.7	21.93		ug/Kg		132	25 - 162
Endrin aldehyde	16.7	20.13	*	ug/Kg		121	49 - 117
Hexachlorocyclohexane, gamma-	16.7	20.13		ug/Kg		121	30 - 158
Heptachlor	16.7	20.69		ug/Kg		124	29 - 163
Heptachlor epoxide	16.7	20.38		ug/Kg		122	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*101*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*123*		*25 - 143*

QC Sample Results

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

Job ID: 860-19939-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-39480/3-A
Matrix: Solid
Analysis Batch: 39536

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39480

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT			16.7	20.06		ug/Kg		120	13 - 192	4	25
Aldrin			16.7	20.31		ug/Kg		122	30 - 152	0	25
Hexachlorocyclohexane, alpha-			16.7	19.67		ug/Kg		118	29 - 160	1	25
Hexachlorocyclohexane, beta-			16.7	20.97		ug/Kg		126	30 - 155	2	25
Hexachlorocyclohexane, delta-			16.7	19.02		ug/Kg		114	20 - 161	2	25
Dieldrin			16.7	21.09		ug/Kg		127	33 - 153	2	25
Endosulfan I			16.7	20.45		ug/Kg		123	30 - 151	2	25
Endosulfan II			16.7	18.59		ug/Kg		112	27 - 153	4	25
Endosulfan sulfate			16.7	19.57		ug/Kg		117	15 - 170	4	25
Endrin			16.7	21.16		ug/Kg		127	25 - 162	4	25
Endrin aldehyde			16.7	19.32		ug/Kg		116	49 - 117	4	25
Hexachlorocyclohexane, gamma-			16.7	20.03		ug/Kg		120	30 - 158	0	25
Heptachlor			16.7	20.86		ug/Kg		125	29 - 163	1	25
Heptachlor epoxide			16.7	19.96		ug/Kg		120	30 - 150	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*100*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*112*		*25 - 143*

Lab Sample ID: 860-19939-2 MS
Matrix: Solid
Analysis Batch: 39536

Client Sample ID: Cell20-Square 200-S-3-4-220127
Prep Type: Total/NA
Prep Batch: 39480

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
DDT	0.254	U	16.7	18.00		ug/Kg		108	13 - 192		
Aldrin	0.362	U	16.7	15.65		ug/Kg		94	30 - 152		
Hexachlorocyclohexane, alpha-	0.679	U	16.7	14.00		ug/Kg		84	29 - 160		
Hexachlorocyclohexane, beta-	0.473	U	16.7	18.00		ug/Kg		108	30 - 155		
Hexachlorocyclohexane, delta-	0.832	U	16.7	16.02		ug/Kg		96	20 - 161		
Dieldrin	0.169	U	16.7	18.45		ug/Kg		111	33 - 153		
Endosulfan I	0.202	U	16.7	17.54		ug/Kg		105	30 - 151		
Endosulfan II	0.372	U	16.7	16.62		ug/Kg		100	27 - 153		
Endosulfan sulfate	0.276	U	16.7	17.25		ug/Kg		103	15 - 170		
Endrin	0.291	U	16.7	19.72		ug/Kg		118	25 - 162		
Endrin aldehyde	0.247	U *	16.7	16.86		ug/Kg		101	49 - 117		
Hexachlorocyclohexane, gamma-	0.438	U	16.7	15.19		ug/Kg		91	30 - 158		
Heptachlor	0.562	U	16.7	15.71		ug/Kg		94	29 - 163		
Heptachlor epoxide	0.245	U	16.7	17.05		ug/Kg		102	30 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*63*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*95*		*25 - 143*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 860-19939-2 MSD **Client Sample ID: Cell20-Square 200-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39536 **Prep Batch: 39480**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT	0.254	U	16.7	17.37		ug/Kg		104	13 - 192	4	25
Aldrin	0.362	U	16.7	16.76		ug/Kg		101	30 - 152	7	25
Hexachlorocyclohexane, alpha-	0.679	U	16.7	16.46		ug/Kg		99	29 - 160	16	25
Hexachlorocyclohexane, beta-	0.473	U	16.7	18.06		ug/Kg		108	30 - 155	0	25
Hexachlorocyclohexane, delta-	0.832	U	16.7	16.36		ug/Kg		98	20 - 161	2	25
Dieldrin	0.169	U	16.7	18.26		ug/Kg		110	33 - 153	1	25
Endosulfan I	0.202	U	16.7	17.49		ug/Kg		105	30 - 151	0	25
Endosulfan II	0.372	U	16.7	16.34		ug/Kg		98	27 - 153	2	25
Endosulfan sulfate	0.276	U	16.7	16.95		ug/Kg		102	15 - 170	2	25
Endrin	0.291	U	16.7	19.25		ug/Kg		116	25 - 162	2	25
Endrin aldehyde	0.247	U *	16.7	16.39		ug/Kg		98	49 - 117	3	25
Hexachlorocyclohexane, gamma-	0.438	U	16.7	16.93		ug/Kg		102	30 - 158	11	25
Heptachlor	0.562	U	16.7	17.56		ug/Kg		105	29 - 163	11	25
Heptachlor epoxide	0.245	U	16.7	17.33		ug/Kg		104	30 - 150	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*83*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*96*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-39480/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/29/22 11:03	01/31/22 17:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*35 - 140*	*01/29/22 11:03*	*01/31/22 17:36*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 142*	*01/29/22 11:03*	*01/31/22 17:36*	*1*

Lab Sample ID: LCS 860-39480/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			0.167	0.1562		mg/Kg		94	27 - 121		
Aroclor 1260			0.167	0.1483		mg/Kg		89	27 - 139		

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-39480/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	84		35 - 140
DCB Decachlorobiphenyl (Surr)	83		37 - 142

Lab Sample ID: LCSD 860-39480/5-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1508		mg/Kg		90	27 - 121	4	20
Aroclor 1260			0.167	0.1483		mg/Kg		89	27 - 139	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	79		35 - 140
DCB Decachlorobiphenyl (Surr)	80		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565272/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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		02/05/22 11:25	02/10/22 06:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 06:07	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/05/22 11:25	02/10/22 06:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	02/05/22 11:25	02/10/22 06:07	1

Lab Sample ID: LCS 280-565272/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.9312		mg/Kg		93	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9739		mg/Kg		97	80 - 124
2,4,6-Trinitrotoluene			1.00	0.9953		mg/Kg		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	99		83 - 122

QC Sample Results

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

Job ID: 860-19939-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-39863/32-A
Matrix: Solid
Analysis Batch: 40032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39863

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrite as N	0.0500	U	1.00	0.0500	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrate Nitrite as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		02/01/22 20:43	02/03/22 00:14	1

Lab Sample ID: LCS 860-39863/33-A
Matrix: Solid
Analysis Batch: 40032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39863

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			100	100.2		mg/Kg		100	80 - 120		
Nitrate as N			100	100.1		mg/Kg		100	80 - 120		
Fluoride			100	102.1		mg/Kg		102	80 - 120		
Nitrite as N			50.0	47.27		mg/Kg		95	80 - 120		
Nitrate Nitrite as N			150	147.4		mg/Kg		98	80 - 120		
Sulfate			100	99.86		mg/Kg		100	80 - 120		

Lab Sample ID: LCSD 860-39863/34-A
Matrix: Solid
Analysis Batch: 40032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39863

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	100.9		mg/Kg		101	80 - 120	1	20
Nitrate as N			100	100.3		mg/Kg		100	80 - 120	0	20
Fluoride			100	102.5		mg/Kg		103	80 - 120	0	20
Nitrite as N			50.0	47.17		mg/Kg		94	80 - 120	0	20
Nitrate Nitrite as N			150	147.5		mg/Kg		98	80 - 120	0	20
Sulfate			100	99.95		mg/Kg		100	80 - 120	0	20

Lab Sample ID: 860-19939-1 MS
Matrix: Solid
Analysis Batch: 40032

Client Sample ID: Cell22-Square 132-S-3-4-220127
Prep Type: Total/NA
Prep Batch: 39863

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	7.81	J	99.6	111.4		mg/Kg		104	80 - 120		
Nitrate as N	10.2		99.6	110.8		mg/Kg		101	80 - 120		
Fluoride	5.84		99.6	108.3		mg/Kg		103	80 - 120		
Nitrite as N	0.427	J	24.9	28.15		mg/Kg		111	80 - 120		
Nitrate Nitrite as N	10.6		125	139.0		mg/Kg		103	80 - 120		
Sulfate	373		99.6	463.7		mg/Kg		91	80 - 120		

Lab Sample ID: 860-19939-1 MSD
Matrix: Solid
Analysis Batch: 40032

Client Sample ID: Cell22-Square 132-S-3-4-220127
Prep Type: Total/NA
Prep Batch: 39863

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.81	J	99.8	112.0		mg/Kg		104	80 - 120	1	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-19939-1 MSD **Client Sample ID: Cell22-Square 132-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40033 **Prep Batch: 39863**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	10.2		99.8	111.1		mg/Kg		101	80 - 120	0	15
Fluoride	5.84		99.8	108.5		mg/Kg		103	80 - 120	0	20
Nitrite as N	0.427	J	25.0	28.20		mg/Kg		111	80 - 120	0	15
Nitrate Nitrite as N	10.6		125	139.3		mg/Kg		103	80 - 120	0	15
Sulfate	373		99.8	464.7		mg/Kg		92	80 - 120	0	20

Lab Sample ID: 860-19939-2 MS **Client Sample ID: Cell20-Square 200-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40032 **Prep Batch: 39863**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.50	U	99.6	104.6		mg/Kg		105	80 - 120
Nitrate as N	5.01		99.6	106.1		mg/Kg		101	80 - 120
Fluoride	2.06	J	99.6	105.9		mg/Kg		104	80 - 120
Nitrite as N	0.422	J	24.9	27.33		mg/Kg		108	80 - 120
Nitrate Nitrite as N	5.43		125	133.4		mg/Kg		103	80 - 120
Sulfate	91.5		99.6	194.6		mg/Kg		104	80 - 120

Lab Sample ID: 860-19939-2 MSD **Client Sample ID: Cell20-Square 200-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40032 **Prep Batch: 39863**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.50	U	99.8	105.0		mg/Kg		105	80 - 120	0	20
Nitrate as N	5.01		99.8	106.3		mg/Kg		102	80 - 120	0	15
Fluoride	2.06	J	99.8	106.0		mg/Kg		104	80 - 120	0	20
Nitrite as N	0.422	J	25.0	27.39		mg/Kg		108	80 - 120	0	15
Nitrate Nitrite as N	5.43		125	133.7		mg/Kg		103	80 - 120	0	15
Sulfate	91.5		99.8	194.9		mg/Kg		104	80 - 120	0	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 564802

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate			0.0500	0.04711	J	ug/L		94	70 - 130

Lab Sample ID: MB 280-565161/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565540 **Prep Batch: 565161**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:01	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS (Continued)

Lab Sample ID: LCS 280-565161/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565540 **Prep Batch: 565161**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5047		ug/Kg		101	80 - 120

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 556129

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.500	0.490	U	ug/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4417	J	ug/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		95	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

Lab Sample ID: MB 280-565681/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566232 **Prep Batch: 565681**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/10/22 11:04	02/16/22 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/10/22 11:04*	*02/16/22 11:21*	*1*
13C8 PFOS	*107*		*70 - 130*	*02/10/22 11:04*	*02/16/22 11:21*	*1*

Lab Sample ID: LCS 280-565681/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566232 **Prep Batch: 565681**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	20.31		ug/Kg		102	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	18.45		ug/Kg		101	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.74		ug/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*108*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 860-19939-2 MS **Client Sample ID: Cell20-Square 200-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566232 **Prep Batch: 565681**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.213	U	18.9	18.62		ug/Kg		99	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	0.260	U	17.2	16.11		ug/Kg		94	70 - 135
Perfluorooctanesulfonic acid (PFOS)	0.130	U	17.5	17.24		ug/Kg		99	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
13C8 PFOA	*102*		*57 - 153*
13C8 PFOS	*109*		*70 - 130*

Lab Sample ID: 860-19939-2 MSD **Client Sample ID: Cell20-Square 200-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566232 **Prep Batch: 565681**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanoic acid (PFOA)	0.213	U	18.6	18.23		ug/Kg		98	70 - 131	2	30
Perfluorohexanesulfonic acid (PFHxS)	0.260	U	16.9	15.53		ug/Kg		92	70 - 135	4	30
Perfluorooctanesulfonic acid (PFOS)	0.130	U	17.2	16.44		ug/Kg		95	70 - 130	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C8 PFOA	*103*		*57 - 153*
13C8 PFOS	*110*		*70 - 130*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-40114/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40171 **Prep Batch: 40114**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/03/22 09:32	02/03/22 13:00	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-40114/2-A
Matrix: Solid
Analysis Batch: 40171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	5.00	4.818		mg/Kg		96	80 - 120
Arsenic	10.0	9.424		mg/Kg		94	80 - 120
Barium	10.0	9.503		mg/Kg		95	80 - 120
Beryllium	10.0	9.650		mg/Kg		96	80 - 120
Cadmium	10.0	9.511		mg/Kg		95	80 - 120
Chromium	10.0	9.366		mg/Kg		94	80 - 120
Copper	10.0	9.347		mg/Kg		93	80 - 120
Iron	50.0	46.41		mg/Kg		93	80 - 120
Manganese	10.0	9.685		mg/Kg		97	80 - 120
Lead	10.0	9.308		mg/Kg		93	80 - 120
Antimony	10.0	9.708		mg/Kg		97	80 - 120
Selenium	10.0	9.491		mg/Kg		95	80 - 120
Thallium	10.0	9.419		mg/Kg		94	80 - 120
Uranium	2.50	2.341		mg/Kg		94	80 - 120
Zinc	10.0	10.41		mg/Kg		104	80 - 120

Lab Sample ID: LCSD 860-40114/3-A
Matrix: Solid
Analysis Batch: 40171

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40114

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.90	4.645		mg/Kg		95	80 - 120	4	20
Arsenic	9.80	9.222		mg/Kg		94	80 - 120	2	20
Barium	9.80	9.259		mg/Kg		94	80 - 120	3	20
Beryllium	9.80	9.570		mg/Kg		98	80 - 120	1	20
Cadmium	9.80	9.279		mg/Kg		95	80 - 120	2	20
Chromium	9.80	9.111		mg/Kg		93	80 - 120	3	20
Copper	9.80	8.911		mg/Kg		91	80 - 120	5	20
Iron	49.0	45.01		mg/Kg		92	80 - 120	3	20
Manganese	9.80	9.456		mg/Kg		96	80 - 120	2	20
Lead	9.80	9.072		mg/Kg		93	80 - 120	3	20
Antimony	9.80	9.488		mg/Kg		97	80 - 120	2	20
Selenium	9.80	9.306		mg/Kg		95	80 - 120	2	20
Thallium	9.80	9.182		mg/Kg		94	80 - 120	3	20
Uranium	2.45	2.324		mg/Kg		95	80 - 120	1	20
Zinc	9.80	9.952		mg/Kg		102	80 - 120	5	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39690/10-A
Matrix: Solid
Analysis Batch: 39840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39690

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00377	U	0.0196	0.00377	mg/Kg		02/01/22 08:30	02/01/22 12:23	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 860-39690/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39840 — **Prep Batch: 39690**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.192	0.1814		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 860-39690/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39840 — **Prep Batch: 39690**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.192	0.1813		mg/Kg		94	80 - 120	0	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40886/22-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/09/22 15:50	02/09/22 17:14	1

Lab Sample ID: LCS 860-40886/23-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	102.7		ug/Kg		103	90 - 110

Lab Sample ID: LLCS 860-40886/24-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	50.0	52.26		ug/Kg		105	90 - 110

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-42380/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43154 — **Prep Batch: 42380**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/22/22 10:19	02/24/22 11:23	1

Lab Sample ID: LCS 860-42380/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43154 — **Prep Batch: 42380**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	1.00	1.120	*	mg/Kg		112	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9066 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCSD 860-42380/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 43154 **Prep Batch: 42380**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total			1.00	1.040		mg/Kg		104	90 - 110	7	20

Lab Sample ID: 860-19939-1 MS **Client Sample ID: Cell22-Square 132-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 43154 **Prep Batch: 42380**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenols, Total	0.0600	U *	1.00	0.8240	N1	mg/Kg		82	90 - 110		

Lab Sample ID: 860-19939-1 MSD **Client Sample ID: Cell22-Square 132-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 43154 **Prep Batch: 42380**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	0.0600	U *	1.00	0.9800		mg/Kg		98	90 - 110	17	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193206/1 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/15/22 15:10	1

Lab Sample ID: LCS 560-193206/2 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			2250	2124		mg/L		94	90 - 110		

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: LCS 160-549553/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 552706 **Prep Batch: 549553**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Americium-241			96.2	96.60		11.6		1.13	pCi/g	100	75 - 125		
Cesium-137			26.0	26.44		3.22		0.201	pCi/g	102	75 - 125		
Cobalt-60			8.07	8.469		1.06		0.145	pCi/g	105	75 - 125		

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	5035	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	5035	

Analysis Batch: 40051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8260D SIM	39768
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8260D SIM	39768
MB 860-40051/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-40051/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-40051/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8260B	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8260B	
MB 560-192708/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192708/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192708/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	3550C	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	3550C	
MB 860-39525/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39525/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39525/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 39561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-39525/1-A	Method Blank	Total/NA	Solid	8270D	39525
LCS 860-39525/2-A	Lab Control Sample	Total/NA	Solid	8270D	39525
LCSD 860-39525/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	39525

Analysis Batch: 39861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8270D	39525
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8270D	39525

Prep Batch: 566137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	3546	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	3546	
MB 400-566137/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 566465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8270D	566137
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8270D	566137

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS Semi VOA (Continued)

Analysis Batch: 566465 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-566137/1-A	Method Blank	Total/NA	Solid	8270D	566137
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	8270D	566137

GC Semi VOA

Prep Batch: 39480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	3550C	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	3550C	
MB 860-39480/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39480/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-39480/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39480/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-39480/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-19939-2 MS	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	3550C	
860-19939-2 MSD	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	3550C	

Analysis Batch: 39536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8081B	39480
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8081B	39480
MB 860-39480/1-A	Method Blank	Total/NA	Solid	8081B	39480
LCS 860-39480/2-A	Lab Control Sample	Total/NA	Solid	8081B	39480
LCSD 860-39480/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	39480
860-19939-2 MS	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8081B	39480
860-19939-2 MSD	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8081B	39480

Analysis Batch: 39558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8082A	39480
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8082A	39480
MB 860-39480/1-A	Method Blank	Total/NA	Solid	8082A	39480
LCS 860-39480/4-A	Lab Control Sample	Total/NA	Solid	8082A	39480
LCSD 860-39480/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	39480

Prep Batch: 39790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8015NM Prep	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8015NM Prep	
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8015B NM	39790
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8015B NM	39790
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015B NM	39790
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015B NM	39790
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39790

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Prep Batch: 39863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	300_Prep	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	300_Prep	
MB 860-39863/32-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-19939-1 MS	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	300_Prep	
860-19939-1 MSD	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	300_Prep	
860-19939-2 MS	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	300_Prep	
860-19939-2 MSD	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	300_Prep	

Analysis Batch: 40032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	9056A	39863
MB 860-39863/32-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	9056A	39863
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39863
860-19939-1 MS	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19939-1 MSD	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19939-2 MS	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19939-2 MSD	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	9056A	39863

Analysis Batch: 40033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	9056A	39863
MB 860-39863/32-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	9056A	39863
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39863
860-19939-1 MS	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19939-1 MSD	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19939-2 MS	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19939-2 MSD	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	9056A	39863

Drying Batch: 564725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	Prep/Air Dry	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8330B	564725
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8330B	564725
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 565637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8330B	565272
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8330B	565272
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	565272

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Analysis Batch: 565637 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	565272

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	6860	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	6860	
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	6860	565161
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	6860	565161
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	565161
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	565161

Prep Batch: 565681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	PFC leach	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	PFC leach	
MB 280-565681/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	
860-19939-2 MS	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	PFC leach	
860-19939-2 MSD	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	PFC leach	

Analysis Batch: 566232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	DV-LC-0012	565681
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	DV-LC-0012	565681
MB 280-565681/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565681
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565681
860-19939-2 MS	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	DV-LC-0012	565681
860-19939-2 MSD	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	DV-LC-0012	565681

Metals

Prep Batch: 39690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	7471A	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	7471A	
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Metals (Continued)

Prep Batch: 39690 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

Analysis Batch: 39840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	7471A	39690
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	7471A	39690
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	39690
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	39690
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39690

Prep Batch: 40114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	3051A	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	3051A	
MB 860-40114/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-40114/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-40114/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 40171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-40114/1-A	Method Blank	Total/NA	Solid	6020A	40114
LCS 860-40114/2-A	Lab Control Sample	Total/NA	Solid	6020A	40114
LCSD 860-40114/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	40114

Analysis Batch: 40235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	6020A	40114
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	6020A	40114

General Chemistry

Analysis Batch: 39955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	Moisture - 2540	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	Moisture - 2540	
MB 860-39955/1	Method Blank	Total/NA	Solid	Moisture - 2540	
860-19939-1 DU	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	Moisture - 2540	

Leach Batch: 40845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Soluble	Solid	DI Leach	
860-19939-2	Cell20-Square 200-S-3-4-220127	Soluble	Solid	DI Leach	

Analysis Batch: 40861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Soluble	Solid	9045D	40845
860-19939-2	Cell20-Square 200-S-3-4-220127	Soluble	Solid	9045D	40845

Prep Batch: 40886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9012A	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry (Continued)

Prep Batch: 40886 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	9012A	
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	

Analysis Batch: 40920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9012A	40886
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	9012A	40886
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	40886
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	40886
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	40886

Prep Batch: 42380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	Distill/Phenol	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	Distill/Phenol	
MB 860-42380/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-42380/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-42380/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	
860-19939-1 MS	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	Distill/Phenol	
860-19939-1 MSD	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 43154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9066	42380
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	9066	42380
MB 860-42380/1-A	Method Blank	Total/NA	Solid	9066	42380
LCS 860-42380/2-A	Lab Control Sample	Total/NA	Solid	9066	42380
LCSD 860-42380/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	42380
860-19939-1 MS	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9066	42380
860-19939-1 MSD	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9066	42380

Leach Batch: 193204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	7 Day Leach	Solid	335.521	
860-19939-2	Cell20-Square 200-S-3-4-220127	7 Day Leach	Solid	335.521	

Analysis Batch: 193206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	7 Day Leach	Solid	SM 2540C	193204
860-19939-2	Cell20-Square 200-S-3-4-220127	7 Day Leach	Solid	SM 2540C	193204
MB 560-193206/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193206/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	Dry and Grind	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	Dry and Grind	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Rad

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	Fill_Geo-21	549041
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	Fill_Geo-21	549041
LCS 160-549553/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell22-Square 132-S-3-4-220127
Lab Sample ID: 860-19939-1
Date Collected: 01/27/22 09:46
Matrix: Solid
Date Received: 01/28/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.69 g	5 mL	192708	01/31/22 20:04	RJD	XEN CC
Total/NA	Prep	5035			5.00 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 02:59	A1S	XEN STF
Total/NA	Prep	3550C			30.06 g	1 mL	39525	01/31/22 07:24	TH	XEN STF
Total/NA	Analysis	8270D		10	1 mL	1.0 mL	39861	02/02/22 04:38	T1S	XEN STF
Total/NA	Prep	3546			15.04 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 20:54	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	39790	02/02/22 10:33	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39915	02/02/22 22:37	T1S	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8081B		1			39536	01/31/22 12:04	WP	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8082A		1			39558	01/31/22 19:09	JAL	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.86 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 15:18	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.93 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1			40032	02/02/22 23:27	WP	XEN STF
Total/NA	Prep	300_Prep			4.93 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1			40033	02/02/22 23:27	WP	XEN STF
Total/NA	Prep	6860			10.03 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 20:20	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.69 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 14:17	AGCM	TAL DEN
Total/NA	Prep	3051A			.53 g	50 mL	40114	02/03/22 09:33	PB	XEN STF
Total/NA	Analysis	6020A		10			40235	02/03/22 17:01	DCL	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:41	SHZ	XEN STF
Total/NA	Prep	9012A			0.5056 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:30	CM1	XEN STF
Soluble	Leach	DI Leach			20.14 g	20 mL	40845	02/09/22 12:58	TL	XEN STF
Soluble	Analysis	9045D		1	20.14 g	20 mL	40861	02/09/22 14:16	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42380	02/22/22 10:19	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	43154	02/24/22 11:31	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			350.0000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552701	02/28/22 11:47	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 200-S-3-4-220127 **Lab Sample ID: 860-19939-2**
Date Collected: 01/27/22 08:58 **Matrix: Solid**
Date Received: 01/28/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.1 g	5 mL	192708	01/31/22 20:30	RJD	XEN CC
Total/NA	Prep	5035			5.02 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 03:20	A1S	XEN STF
Total/NA	Prep	3550C			30.67 g	1 mL	39525	01/31/22 07:24	TH	XEN STF
Total/NA	Analysis	8270D		10	1 mL	1.0 mL	39861	02/02/22 05:02	T1S	XEN STF
Total/NA	Prep	3546			15.10 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 21:20	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10 g	10 mL	39790	02/02/22 10:33	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39915	02/02/22 22:57	T1S	XEN STF
Total/NA	Prep	3550C			30.03 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8081B		1			39536	01/31/22 12:20	WP	XEN STF
Total/NA	Prep	3550C			30.03 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8082A		1			39558	01/31/22 19:18	JAL	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.82 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 15:41	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.06 g	50 mL	39863	02/01/22 20:43	ANP	XEN STF
Total/NA	Analysis	9056A		1			40032	02/03/22 01:02	WP	XEN STF
Total/NA	Prep	300_Prep			5.06 g	50 mL	39863	02/01/22 20:43	ANP	XEN STF
Total/NA	Analysis	9056A		1			40033	02/03/22 01:02	WP	XEN STF
Total/NA	Prep	6860			10.51 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 20:25	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.78 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 14:25	AGCM	TAL DEN
Total/NA	Prep	3051A			.58 g	50 mL	40114	02/03/22 09:33	PB	XEN STF
Total/NA	Analysis	6020A		10			40235	02/03/22 17:04	DCL	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:43	SHZ	XEN STF
Total/NA	Prep	9012A			0.4935 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:31	CM1	XEN STF
Soluble	Leach	DI Leach			20.00 g	20 mL	40845	02/09/22 12:58	TL	XEN STF
Soluble	Analysis	9045D		1	20.00 g	20 mL	40861	02/09/22 14:16	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42380	02/22/22 10:19	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	43154	02/24/22 11:39	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			332.0000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552706	02/28/22 11:46	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

Laboratory: Eurofins St. Louis

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

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

Job ID: 860-19939-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19939-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19939-1	Cell22-Square 132-S-3-4-220127	Solid	01/27/22 09:46	01/28/22 10:19
860-19939-2	Cell20-Square 200-S-3-4-220127	Solid	01/27/22 08:58	01/28/22 10:19

Page 741 of 959

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Cory Rodriguez	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-599-5594	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 - 1
Company: ARCADIS U.S. Inc.				Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Standard			
State, Zip: CO, 80129-2377	PO #:			
Phone: 303-710-7537(Tel)	WO #:			
Email: Alison.Schaffer@arcadis.com				
Project Name: Chevron Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B- Volatiles	8270C- Semivolatiles/ 8081 Pesticides/ 8082 PCB	6860 Perchlorate-Ddenver- soil jar 4 oz	6330S - Denver soil jar 4 oz	PFC Denver- plastic 16 oz jar	8270D_AgChem -Pensacola soil jar 4 oz	2540C_Calcd Local Method/ Moisture/ pH 9045	8015B_GRO	8015_DRO/ORO	GA-01_R_ra- Rad 226/226- St Louis- 2 plastic jars 16	9066- Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate, Fluoride	6020/7471- St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X														
Cell 20-Square 132-S-3-4-220127	1/27/22	0944	A	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15
Cell 200-Square 200-S-3-4-220127	1/27/22	0858	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15
				Solid																
				Solid																
				Solid																
				Solid																

860-19939 Chain of Custody

Temp: 1-5 IR ID:HOU-323
C/F: +0.2
Corrected Temp: 1.7

TB

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Cory Rodriguez	1/27/22 1700	Arcadis			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/28/22 10:19	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Received by OCD: 9/12/2022 9:41:21 AM

Released to Imaging: 10/28/2022 10:00:56 AM

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9774.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19939-1
Address: 13715 Rider Trail North,	Due Date Requested: 2/16/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell22-Square 132-S-3-4-220127 (860-19939-1)	1/27/22	09:46 Central		Solid			X	1	
Cell20-Square 200-S-3-4-220127 (860-19939-2)	1/27/22	08:58 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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time: 1/28/22	Company	Received by: FED EX	Date/Time:	Company
Relinquished by: FED EX	Date/Time:	Company	Received by:	Date/Time: 1/31/22 0905	Company ETA STL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Houston
Benbriar Dr
Alford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9773.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19939-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/15/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell22-Square 132-S-3-4-220127 (860-19939-1)	1/27/22	09:46 Central		Solid			X	X	X	2	
Cell20-Square 200-S-3-4-220127 (860-19939-2)	1/27/22	08:58 Central		Solid			X	X	X	2	

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance 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: 1/28/22	Company	Received by:	Date/Time: 1/29/22 1013	Company ETA/DEN
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: 1.6 IR13 CF -0.2

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9772.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-19939-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 2/16/2022			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514	PO #:			
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	WO #:			
Email:	Project #: 86002103			
Project Name: Chevron - Jal Land Farm Soils	SSOW#:			
Site:				

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell22-Square 132-S-3-4-220127 (860-19939-1)	1/27/22	09:46 Central		Solid			X	1	
Cell20-Square 200-S-3-4-220127 (860-19939-2)	1/27/22	08:58 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 out 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 complicance 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: lwrda	Date/Time: 1/29/22	Company	Received by:	Date/Time: 1-27-22	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: 9.6 IR			

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19939-1

Login Number: 19939 **List Source: Eurofins Houston**
List Number: 1
Creator: Torrez, Lisandra

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	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19939-1

Login Number: 19939 **List Source: Eurofins Houston**
List Number: 2
Creator: Torrez, Lisandra

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19939-1

Login Number: 19939 **List Source: Eurofins Corpus Christi**
List Number: 4 **List Creation: 01/29/22 11:24 AM**
Creator: Forrester, Caitlyn D

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.	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	
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: 860-19939-1

Login Number: 19939 **List Source: Eurofins Denver**
List Number: 5 **List Creation: 01/29/22 11:26 AM**
Creator: Lee, Jerry

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	
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").	True	
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: 860-19939-1

Login Number: 19939 **List Source: Eurofins Pensacola**
List Number: 3 **List Creation: 01/29/22 10:39 AM**
Creator: Whitley, Adrian

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	4.6°C IR6
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: 860-19939-1

Login Number: 19939 **List Source: Eurofins St. Louis**
List Number: 6 **List Creation: 02/01/22 12:03 PM**
Creator: Johnson, Autumn R

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	
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.	N/A	

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ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19990-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
2/28/2022 6:05:09 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

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www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 860-19990-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the 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.

GC/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
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.

LCMS

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.

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	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.
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.
¤	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)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19990-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19990-1

Receipt
The samples were received on 1/29/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

GC/MS VOA
Method 8260B: The following analyte recovered outside control limits for the LCS associated with analytical batch 560-192728: Tetrachloroethene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been 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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-39525 and analytical batch 860-39561 recovered outside control limits for the following analyte: Atrazine.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: Cell25-Square116-5-3-4-220128 (860-19990-1). Elevated reporting limits (RLs) are provided.

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

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

PCBs
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 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell25-Square116-5-3-4-220128 (860-19990-1), Cell25-Square71-5-3-4-220128 (860-19990-2), (860-19990-I-1 MS), (860-19990-I-1 MSD), (860-19990-I-2 DU) and (860-19990-I-2 TRL) in preparation batch 280-565114 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell25-Square116-5-3-4-220128 (860-19990-1), (860-19990-I-1 MS) and (860-19990-I-1 MSD). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-565114 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell25-Square116-5-3-4-220128 (860-19990-1), Cell25-Square71-5-3-4-220128 (860-19990-2), (860-19990-I-1-B MS), (860-19990-I-1-C MSD), (860-19990-I-2-B DU) and (860-19990-I-2-C TRL) in preparation batch 280-565114 and 280-565273 by 8330B_Sonc_10g for 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.

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19990-1 (Continued)

Laboratory: Eurofins Houston (Continued)

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 860-40290 and analytical batch 860-40589 were outside control limits for Zinc. 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

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 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 AnalyteTh-234 Pa-234Th-234 U-238Pb-210 Po-210 Pb-210 Bi-210Cs-137 Ba-137mPb-212 Po-216Xe-131m Xe-131Sb-125 Te-125mAg-108m Ag-108Rh-106 Ru-106Pb-212 Th-228Pb-212 Ra-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. Cell25-Square116-5-3-4-220128 (860-19990-1), Cell25-Square71-5-3-4-220128 (860-19990-2), (LCS 160-549553/2-A), (MB 160-549553/1-A) and (860-19990-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square116-5-3-4-220128 Lab Sample ID: 860-19990-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.57	J	9.90	3.50	mg/Kg	1		9056A	Total/NA
Nitrate as N	2.26		0.990	0.107	mg/Kg	1		9056A	Total/NA
Fluoride	2.36	J	4.95	0.990	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.302	J	0.990	0.0495	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	2.56		0.990	0.107	mg/Kg	1		9056A	Total/NA
Sulfate	11.2		9.90	4.28	mg/Kg	1		9056A	Total/NA
Arsenic	2.96	J	3.64	0.561	mg/Kg	10		6020A	Total/NA
Barium	41.5		3.64	0.315	mg/Kg	10		6020A	Total/NA
Beryllium	0.551	J	1.82	0.168	mg/Kg	10		6020A	Total/NA
Chromium	10.6		3.64	0.247	mg/Kg	10		6020A	Total/NA
Copper	2.90	J	3.64	0.237	mg/Kg	10		6020A	Total/NA
Iron	8950		18.2	2.13	mg/Kg	10		6020A	Total/NA
Manganese	55.3		1.82	0.231	mg/Kg	10		6020A	Total/NA
Lead	4.80		1.82	0.176	mg/Kg	10		6020A	Total/NA
Antimony	2.71		1.82	0.108	mg/Kg	10		6020A	Total/NA
Uranium	0.208	J	0.909	0.0543	mg/Kg	10		6020A	Total/NA
Zinc	25.1		3.64	0.402	mg/Kg	10		6020A	Total/NA
Mercury	0.00691	J	0.0182	0.00349	mg/Kg	1		7471A	Total/NA
Cyanide, Total	35.8	J	61.5	30.5	ug/Kg	1		9012A	Total/NA
pH	7.9	HF			SU	1		9045D	Soluble
Total Dissolved Solids	810		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell25-Square71-5-3-4-220128 Lab Sample ID: 860-19990-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.58	J	10.1	3.58	mg/Kg	1		9056A	Total/NA
Nitrate as N	2.27		1.01	0.109	mg/Kg	1		9056A	Total/NA
Fluoride	3.20	J	5.05	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.471	J	1.01	0.0505	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	2.74		1.01	0.109	mg/Kg	1		9056A	Total/NA
Sulfate	6.45	J	10.1	4.36	mg/Kg	1		9056A	Total/NA
Arsenic	1.91	J	3.51	0.541	mg/Kg	10		6020A	Total/NA
Barium	22.3		3.51	0.304	mg/Kg	10		6020A	Total/NA
Beryllium	0.328	J	1.75	0.162	mg/Kg	10		6020A	Total/NA
Chromium	6.52		3.51	0.238	mg/Kg	10		6020A	Total/NA
Copper	1.83	J	3.51	0.229	mg/Kg	10		6020A	Total/NA
Iron	5590		17.5	2.06	mg/Kg	10		6020A	Total/NA
Manganese	37.8		1.75	0.223	mg/Kg	10		6020A	Total/NA
Lead	3.42		1.75	0.170	mg/Kg	10		6020A	Total/NA
Antimony	0.282	J	1.75	0.104	mg/Kg	10		6020A	Total/NA
Uranium	0.129	J	0.877	0.0524	mg/Kg	10		6020A	Total/NA
Zinc	13.5		3.51	0.388	mg/Kg	10		6020A	Total/NA
Mercury	0.00491	J	0.0182	0.00349	mg/Kg	1		7471A	Total/NA
Cyanide, Total	37.5	J	60.5	30.0	ug/Kg	1		9012A	Total/NA
pH	8.6	HF			SU	1		9045D	Soluble
Total Dissolved Solids	216		10.0	10.0	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. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square116-5-3-4-220128 **Lab Sample ID: 860-19990-1**
Date Collected: 01/28/22 10:55 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.676	U	4.63	0.676	ug/Kg			02/01/22 14:34	1
Chloromethane	1.11	U	4.63	1.11	ug/Kg			02/01/22 14:34	1
Vinyl chloride	0.556	U	4.63	0.556	ug/Kg			02/01/22 14:34	1
Bromomethane	1.02	U	4.63	1.02	ug/Kg			02/01/22 14:34	1
Trichlorofluoromethane	0.463	U	4.63	0.463	ug/Kg			02/01/22 14:34	1
Acrolein	7.96	U	46.3	7.96	ug/Kg			02/01/22 14:34	1
1,1-Dichloroethene	0.463	U	4.63	0.463	ug/Kg			02/01/22 14:34	1
trans-1,2-Dichloroethene	0.463	U	4.63	0.463	ug/Kg			02/01/22 14:34	1
Methyl tert-butyl ether	0.565	U	4.63	0.565	ug/Kg			02/01/22 14:34	1
1,3-Dichlorobenzene	0.287	U	4.63	0.287	ug/Kg			02/01/22 14:34	1
Methylene Chloride	4.63	U	23.1	4.63	ug/Kg			02/01/22 14:34	1
Acrylonitrile	3.33	U	46.3	3.33	ug/Kg			02/01/22 14:34	1
cis-1,2-Dichloroethene	0.528	U	4.63	0.528	ug/Kg			02/01/22 14:34	1
Carbon tetrachloride	0.472	U	4.63	0.472	ug/Kg			02/01/22 14:34	1
Benzene	0.583	U	4.63	0.583	ug/Kg			02/01/22 14:34	1
1,2-Dichloroethane	0.481	U	4.63	0.481	ug/Kg			02/01/22 14:34	1
Trichloroethene	0.259	U	4.63	0.259	ug/Kg			02/01/22 14:34	1
1,1,1-Trichloroethane	0.463	U	4.63	0.463	ug/Kg			02/01/22 14:34	1
1,1-Dichloroethane	0.546	U	4.63	0.546	ug/Kg			02/01/22 14:34	1
1,2-Dichloropropane	0.463	U	4.63	0.463	ug/Kg			02/01/22 14:34	1
1,4-Dioxane	17.6	U	92.6	17.6	ug/Kg			02/01/22 14:34	1
Chloroform	0.806	U	4.63	0.806	ug/Kg			02/01/22 14:34	1
Bromodichloromethane	0.185	U	4.63	0.185	ug/Kg			02/01/22 14:34	1
1,1-Dichloropropene	0.481	U	4.63	0.481	ug/Kg			02/01/22 14:34	1
cis-1,3-Dichloropropene	0.417	U	4.63	0.417	ug/Kg			02/01/22 14:34	1
Toluene	0.833	U	4.63	0.833	ug/Kg			02/01/22 14:34	1
trans-1,3-Dichloropropene	0.481	U	4.63	0.481	ug/Kg			02/01/22 14:34	1
1,1,2-Trichloroethane	0.463	U	4.63	0.463	ug/Kg			02/01/22 14:34	1
Tetrachloroethene	0.685	U *	4.63	0.685	ug/Kg			02/01/22 14:34	1
1,3-Dichloropropene, Total	0.481	U	4.63	0.481	ug/Kg			02/01/22 14:34	1
1,2-Dibromoethane	0.278	U	4.63	0.278	ug/Kg			02/01/22 14:34	1
Monochlorobenzene	0.278	U	4.63	0.278	ug/Kg			02/01/22 14:34	1
Ethylbenzene	0.417	U	4.63	0.417	ug/Kg			02/01/22 14:34	1
Xylenes, Total	0.463	U	9.26	0.463	ug/Kg			02/01/22 14:34	1
Styrene	0.278	U	4.63	0.278	ug/Kg			02/01/22 14:34	1
Tribromomethane	0.472	U	4.63	0.472	ug/Kg			02/01/22 14:34	1
1,1,2,2-Tetrachloroethane	0.352	U	4.63	0.352	ug/Kg			02/01/22 14:34	1
1,4-Dichlorobenzene	0.296	U	4.63	0.296	ug/Kg			02/01/22 14:34	1
1,2-Dichlorobenzene	0.231	U	4.63	0.231	ug/Kg			02/01/22 14:34	1
1,2,4-Trichlorobenzene	0.898	U	4.63	0.898	ug/Kg			02/01/22 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*50 - 136*		*02/01/22 14:34*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*02/01/22 14:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 152*		*02/01/22 14:34*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*02/01/22 14:34*	*1*

Method: 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	0.00502	0.00251	mg/Kg		02/01/22 16:14	02/03/22 03:42	1

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Client Sample Results

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

Job ID: 860-19990-1

Client Sample ID: Cell25-Square116-5-3-4-220128
Date Collected: 01/28/22 10:55
Date Received: 01/29/22 09:40

Lab Sample ID: 860-19990-1
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*	*02/01/22 16:14*	*02/03/22 03:42*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.8	U	64.9	11.8	ug/Kg		02/10/22 13:33	02/14/22 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*93*		*30 - 164*	*02/10/22 13:33*	*02/14/22 21:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	173	U	1650	173	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
1,2,4,5-Tetrachlorobenzene	164	U	1650	164	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
1-Methylnaphthalene	265	U	1650	265	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
bis (2-chloroisopropyl) ether	177	U	1650	177	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
2,4,5-Trichlorophenol	189	U	1650	189	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
2,4,6-Trichlorophenol	156	U	1650	156	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
2,4-Dinitrotoluene	126	U	1650	126	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Dinitrophenols	240	U	3310	240	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
2,4-Dichlorophenol	173	U	1650	173	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
2,6-Dinitrotoluene	231	U	1650	231	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Dichlorobenzidine, 3,3'-	153	U	3310	153	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
4,6-Dinitro-2-methylphenol	126	U	3310	126	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Acenaphthene	154	U	1650	154	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Anthracene	137	U	1650	137	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Acenaphthylene	147	U	1650	147	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Benzo[a]anthracene	140	U	1650	140	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Benzo[b]fluoranthene	125	U	1650	125	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Benzo[k]fluoranthene	192	U	1650	192	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Benzo[g,h,i]perylene	152	U	1650	152	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Benzo[a]pyrene	171	U	1650	171	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Di (2-ethylhexyl)phthalate	1650	U	3310	1650	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Bis(2-chloroethyl)ether	151	U	1650	151	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Chrysene	164	U	1650	164	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Dibutylphthalate	159	U	1650	159	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Dibenz(a,h)anthracene	126	U	1650	126	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Diethyl phthalate	152	U	1650	152	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Dimethyl phthalate	158	U	1650	158	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Fluoranthene	146	U	1650	146	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Fluorene	137	U	1650	137	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Hexachlorobenzene	161	U	1650	161	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Hexachlorobutadiene	137	U	1650	137	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Hexachlorocyclopentadiene	151	U	1650	151	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Hexachloroethane	172	U	1650	172	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Indeno[1,2,3-cd]pyrene	133	U	1650	133	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Isophorone	144	U	1650	144	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
N-Nitrosodi-n-butylamine	251	U	1650	251	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
N-Nitrosodiethylamine	218	U	1650	218	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
N-Nitrosodiphenylamine	185	U	1650	185	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
N-Nitrosopyrrolidine	140	U	1650	140	ug/Kg		01/31/22 07:24	02/02/22 05:26	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square116-5-3-4-220128 **Lab Sample ID: 860-19990-1**
Date Collected: 01/28/22 10:55 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	158	U	1650	158	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Pentachlorophenol	120	U	3310	120	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Phenanthrene	165	U	1650	165	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Pyrene	145	U	1650	145	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Naphthalene	155	U	1650	155	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
2-Methylnaphthalene	448	U	1650	448	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Nitrobenzene	184	U	1650	184	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Benzidine	120	U	3310	120	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Phenol	0.149	U	3.31	0.149	mg/Kg		01/31/22 07:24	02/02/22 05:26	10
N-Nitrosodimethylamine	166	U	1650	166	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Atrazine	164	U *	3310	164	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Thiophene, tetrahydro-, 1,1-dioxide	3310	U	3310	3310	ug/Kg		01/31/22 07:24	02/02/22 05:26	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*6.62*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 07:24*	*02/02/22 05:26*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*30 - 115*	*01/31/22 07:24*	*02/02/22 05:26*	*10*
2-Fluorophenol	*75*		*25 - 121*	*01/31/22 07:24*	*02/02/22 05:26*	*10*
2,4,6-Tribromophenol	*94*		*19 - 122*	*01/31/22 07:24*	*02/02/22 05:26*	*10*
Nitrobenzene-d5	*68*		*23 - 129*	*01/31/22 07:24*	*02/02/22 05:26*	*10*
Phenol-d5 (Surr)	*73*		*24 - 113*	*01/31/22 07:24*	*02/02/22 05:26*	*10*
p-Terphenyl-d14 (Surr)	*88*		*18 - 137*	*01/31/22 07:24*	*02/02/22 05:26*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 15:02	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 15:02	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*65 - 130*	*02/03/22 13:11*	*02/03/22 15:02*	*1*
o-Terphenyl (Surr)	*77*		*65 - 130*	*02/03/22 13:11*	*02/03/22 15:02*	*1*

Method: 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		02/02/22 17:01	02/03/22 12:06	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Endrin	0.291	U	0.833	0.291	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		02/02/22 17:01	02/03/22 12:06	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square116-5-3-4-220128 **Lab Sample ID: 860-19990-1**
Date Collected: 01/28/22 10:55 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.562	U	0.833	0.562	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		02/02/22 17:01	02/03/22 12:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*35 - 135*	*02/02/22 17:01*	*02/03/22 12:06*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*25 - 143*	*02/02/22 17:01*	*02/03/22 12:06*	*1*

Method: 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		02/02/22 17:01	02/03/22 13:41	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:41	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:41	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:41	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:41	1
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		02/02/22 17:01	02/03/22 13:41	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		02/02/22 17:01	02/03/22 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*35 - 140*	*02/02/22 17:01*	*02/03/22 13:41*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*37 - 142*	*02/02/22 17:01*	*02/03/22 13:41*	*1*

Method: 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	0.0227	U	0.0998	0.0227	mg/Kg		02/07/22 15:28	02/11/22 02:48	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.200	0.0429	mg/Kg		02/07/22 15:28	02/11/22 02:48	1
2,4,6-Trinitrotoluene	0.0306	U	0.0998	0.0306	mg/Kg		02/07/22 15:28	02/11/22 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*108*		*83 - 122*	*02/07/22 15:28*	*02/11/22 02:48*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.57**	**J**	9.90	3.50	mg/Kg		02/01/22 20:44	02/03/22 01:37	1
Nitrate as N	**2.26**		0.990	0.107	mg/Kg		02/01/22 20:44	02/03/22 01:37	1
Fluoride	**2.36**	**J**	4.95	0.990	mg/Kg		02/01/22 20:44	02/03/22 01:37	1
Nitrite as N	**0.302**	**J**	0.990	0.0495	mg/Kg		02/01/22 20:44	02/03/22 01:37	1
Nitrate Nitrite as N	**2.56**		0.990	0.107	mg/Kg		02/01/22 20:44	02/03/22 01:37	1
Sulfate	**11.2**		9.90	4.28	mg/Kg		02/01/22 20:44	02/03/22 01:37	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0816	U	0.495	0.0816	ug/Kg		02/07/22 14:51	02/08/22 16:06	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.227	U	0.791	0.227	ug/Kg		02/07/22 10:31	02/16/22 10:02	1
Perfluorohexanesulfonic acid (PFHxS)	0.277	U	0.791	0.277	ug/Kg		02/07/22 10:31	02/16/22 10:02	1
Perfluorooctanesulfonic acid (PFOS)	0.138	U	0.791	0.138	ug/Kg		02/07/22 10:31	02/16/22 10:02	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square116-5-3-4-220128 **Lab Sample ID: 860-19990-1**
Date Collected: 01/28/22 10:55 **Matrix: Solid**
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	02/07/22 10:31	02/16/22 10:02	1
13C8 PFOS	104		70 - 130	02/07/22 10:31	02/16/22 10:02	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.144	U	1.82	0.144	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Arsenic	**2.96**	**J**	3.64	0.561	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Barium	**41.5**		3.64	0.315	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Beryllium	**0.551**	**J**	1.82	0.168	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Cadmium	0.105	U	1.82	0.105	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Chromium	**10.6**		3.64	0.247	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Copper	**2.90**	**J**	3.64	0.237	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Iron	**8950**		18.2	2.13	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Manganese	**55.3**		1.82	0.231	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Lead	**4.80**		1.82	0.176	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Antimony	**2.71**		1.82	0.108	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Selenium	0.451	U	1.82	0.451	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Thallium	0.217	U	1.82	0.217	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Uranium	**0.208**	**J**	0.909	0.0543	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Zinc	**25.1**		3.64	0.402	mg/Kg		02/04/22 11:08	02/07/22 19:14	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00691**	**J**	0.0182	0.00349	mg/Kg		02/01/22 08:30	02/01/22 12:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**35.8**	**J**	61.5	30.5	ug/Kg		02/09/22 15:50	02/09/22 17:35	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:49	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.9**	**HF**			SU			02/14/22 14:32	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**810**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	**0.527**		0.146	0.159	1.00	0.138	pCi/g	02/07/22 10:12	02/28/22 11:48	1
Radium-228	0.427	U	0.174	0.181		0.493	pCi/g	02/07/22 10:12	02/28/22 11:48	1
Combined Radium 226 + 228	**0.954**		0.227	0.241		0.493	pCi/g	02/07/22 10:12	02/28/22 11:48	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square71-5-3-4-220128 **Lab Sample ID: 860-19990-2**
Date Collected: 01/28/22 10:40 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.723	U	4.95	0.723	ug/Kg			02/01/22 14:59	1
Chloromethane	1.19	U	4.95	1.19	ug/Kg			02/01/22 14:59	1
Vinyl chloride	0.594	U	4.95	0.594	ug/Kg			02/01/22 14:59	1
Bromomethane	1.09	U	4.95	1.09	ug/Kg			02/01/22 14:59	1
Trichlorofluoromethane	0.495	U	4.95	0.495	ug/Kg			02/01/22 14:59	1
Acrolein	8.51	U	49.5	8.51	ug/Kg			02/01/22 14:59	1
1,1-Dichloroethene	0.495	U	4.95	0.495	ug/Kg			02/01/22 14:59	1
trans-1,2-Dichloroethene	0.495	U	4.95	0.495	ug/Kg			02/01/22 14:59	1
Methyl tert-butyl ether	0.604	U	4.95	0.604	ug/Kg			02/01/22 14:59	1
1,3-Dichlorobenzene	0.307	U	4.95	0.307	ug/Kg			02/01/22 14:59	1
Methylene Chloride	4.95	U	24.8	4.95	ug/Kg			02/01/22 14:59	1
Acrylonitrile	3.56	U	49.5	3.56	ug/Kg			02/01/22 14:59	1
cis-1,2-Dichloroethene	0.564	U	4.95	0.564	ug/Kg			02/01/22 14:59	1
Carbon tetrachloride	0.505	U	4.95	0.505	ug/Kg			02/01/22 14:59	1
Benzene	0.624	U	4.95	0.624	ug/Kg			02/01/22 14:59	1
1,2-Dichloroethane	0.515	U	4.95	0.515	ug/Kg			02/01/22 14:59	1
Trichloroethene	0.277	U	4.95	0.277	ug/Kg			02/01/22 14:59	1
1,1,1-Trichloroethane	0.495	U	4.95	0.495	ug/Kg			02/01/22 14:59	1
1,1-Dichloroethane	0.584	U	4.95	0.584	ug/Kg			02/01/22 14:59	1
1,2-Dichloropropane	0.495	U	4.95	0.495	ug/Kg			02/01/22 14:59	1
1,4-Dioxane	18.8	U	99.0	18.8	ug/Kg			02/01/22 14:59	1
Chloroform	0.861	U	4.95	0.861	ug/Kg			02/01/22 14:59	1
Bromodichloromethane	0.198	U	4.95	0.198	ug/Kg			02/01/22 14:59	1
1,1-Dichloropropene	0.515	U	4.95	0.515	ug/Kg			02/01/22 14:59	1
cis-1,3-Dichloropropene	0.446	U	4.95	0.446	ug/Kg			02/01/22 14:59	1
Toluene	0.891	U	4.95	0.891	ug/Kg			02/01/22 14:59	1
trans-1,3-Dichloropropene	0.515	U	4.95	0.515	ug/Kg			02/01/22 14:59	1
1,1,2-Trichloroethane	0.495	U	4.95	0.495	ug/Kg			02/01/22 14:59	1
Tetrachloroethene	0.733	U *	4.95	0.733	ug/Kg			02/01/22 14:59	1
1,3-Dichloropropene, Total	0.515	U	4.95	0.515	ug/Kg			02/01/22 14:59	1
1,2-Dibromoethane	0.297	U	4.95	0.297	ug/Kg			02/01/22 14:59	1
Monochlorobenzene	0.297	U	4.95	0.297	ug/Kg			02/01/22 14:59	1
Ethylbenzene	0.446	U	4.95	0.446	ug/Kg			02/01/22 14:59	1
Xylenes, Total	0.495	U	9.90	0.495	ug/Kg			02/01/22 14:59	1
Styrene	0.297	U	4.95	0.297	ug/Kg			02/01/22 14:59	1
Tribromomethane	0.505	U	4.95	0.505	ug/Kg			02/01/22 14:59	1
1,1,2,2-Tetrachloroethane	0.376	U	4.95	0.376	ug/Kg			02/01/22 14:59	1
1,4-Dichlorobenzene	0.317	U	4.95	0.317	ug/Kg			02/01/22 14:59	1
1,2-Dichlorobenzene	0.248	U	4.95	0.248	ug/Kg			02/01/22 14:59	1
1,2,4-Trichlorobenzene	0.960	U	4.95	0.960	ug/Kg			02/01/22 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*50 - 136*		*02/01/22 14:59*	*1*
4-Bromofluorobenzene (Surr)	*110*		*61 - 142*		*02/01/22 14:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 152*		*02/01/22 14:59*	*1*
Toluene-d8 (Surr)	*93*		*65 - 139*		*02/01/22 14:59*	*1*

Method: 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	0.00500	0.00250	mg/Kg		02/01/22 16:14	02/03/22 04:04	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square71-5-3-4-220128 **Lab Sample ID: 860-19990-2**
Date Collected: 01/28/22 10:40 **Matrix: Solid**
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 144*	*02/01/22 16:14*	*02/03/22 04:04*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.7	U	64.6	11.7	ug/Kg		02/10/22 13:33	02/14/22 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*88*		*30 - 164*	*02/10/22 13:33*	*02/14/22 22:12*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.3	U	166	17.3	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
bis (2-chloroisopropyl) ether	17.7	U	166	17.7	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Dinitrophenols	24.1	U	332	24.1	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
2,6-Dinitrotoluene	23.2	U	166	23.2	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Dichlorobenzidine, 3,3'-	15.3	U	332	15.3	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
4,6-Dinitro-2-methylphenol	12.7	U	332	12.7	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Acenaphthene	15.4	U	166	15.4	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Anthracene	13.8	U	166	13.8	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Benzo[a]pyrene	17.1	U	166	17.1	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Di (2-ethylhexyl)phthalate	166	U	332	166	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Bis(2-chloroethyl)ether	15.1	U	166	15.1	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Chrysene	16.5	U	166	16.5	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Dibenz(a,h)anthracene	12.6	U	166	12.6	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Diethyl phthalate	15.2	U	166	15.2	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Dimethyl phthalate	15.8	U	166	15.8	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Fluoranthene	14.6	U	166	14.6	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Fluorene	13.8	U	166	13.8	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Hexachlorobenzene	16.1	U	166	16.1	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Hexachlorocyclopentadiene	15.1	U	166	15.1	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Hexachloroethane	17.2	U	166	17.2	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Isophorone	14.5	U	166	14.5	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
N-Nitrosodiethylamine	21.8	U	166	21.8	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
N-Nitrosodiphenylamine	18.5	U	166	18.5	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
N-Nitrosopyrrolidine	14.0	U	166	14.0	ug/Kg		01/31/22 15:04	02/01/22 22:13	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square71-5-3-4-220128 **Lab Sample ID: 860-19990-2**
Date Collected: 01/28/22 10:40 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.8	U	166	15.8	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Pentachlorophenol	12.1	U	332	12.1	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Pyrene	14.5	U	166	14.5	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Naphthalene	15.6	U	166	15.6	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
2-Methylnaphthalene	45.0	U	166	45.0	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Nitrobenzene	18.4	U	166	18.4	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Benzidine	12.0	U	332	12.0	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Phenol	0.0149	U	0.332	0.0149	mg/Kg		01/31/22 15:04	02/01/22 22:13	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Atrazine	16.4	U	332	16.4	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	332	332	ug/Kg		01/31/22 15:04	02/01/22 22:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.664*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 15:04*	*02/01/22 22:13*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*30 - 115*	*01/31/22 15:04*	*02/01/22 22:13*	*1*
2-Fluorophenol	*92*		*25 - 121*	*01/31/22 15:04*	*02/01/22 22:13*	*1*
2,4,6-Tribromophenol	*85*		*19 - 122*	*01/31/22 15:04*	*02/01/22 22:13*	*1*
Nitrobenzene-d5	*88*		*23 - 129*	*01/31/22 15:04*	*02/01/22 22:13*	*1*
Phenol-d5 (Surr)	*91*		*24 - 113*	*01/31/22 15:04*	*02/01/22 22:13*	*1*
p-Terphenyl-d14 (Surr)	*95*		*18 - 137*	*01/31/22 15:04*	*02/01/22 22:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.7	21.0	mg/Kg		02/03/22 13:11	02/03/22 16:03	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.7	21.0	mg/Kg		02/03/22 13:11	02/03/22 16:03	1
OII Range Organics (Over C28-C36)	21.0	U	49.7	21.0	mg/Kg		02/03/22 13:11	02/03/22 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*65 - 130*	*02/03/22 13:11*	*02/03/22 16:03*	*1*
o-Terphenyl (Surr)	*86*		*65 - 130*	*02/03/22 13:11*	*02/03/22 16:03*	*1*

Method: 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		02/02/22 17:01	02/03/22 12:20	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Endosulfan I	0.201	U	0.832	0.201	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Endrin	0.290	U	0.832	0.290	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		02/02/22 17:01	02/03/22 12:20	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square71-5-3-4-220128 **Lab Sample ID: 860-19990-2**
Date Collected: 01/28/22 10:40 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Heptachlor epoxide	0.244	U	0.832	0.244	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		02/02/22 17:01	02/03/22 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*35 - 135*	*02/02/22 17:01*	*02/03/22 12:20*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*25 - 143*	*02/02/22 17:01*	*02/03/22 12:20*	*1*

Method: 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		02/02/22 17:01	02/03/22 13:51	1
Aroclor 1221	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 13:51	1
Aroclor 1232	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 13:51	1
Aroclor 1242	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 13:51	1
Aroclor 1248	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 13:51	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		02/02/22 17:01	02/03/22 13:51	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		02/02/22 17:01	02/03/22 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*35 - 140*	*02/02/22 17:01*	*02/03/22 13:51*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*37 - 142*	*02/02/22 17:01*	*02/03/22 13:51*	*1*

Method: 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	0.0965	0.0219	mg/Kg		02/07/22 15:28	02/11/22 03:56	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0415	U	0.193	0.0415	mg/Kg		02/07/22 15:28	02/11/22 03:56	1
2,4,6-Trinitrotoluene	0.0296	U	0.0965	0.0296	mg/Kg		02/07/22 15:28	02/11/22 03:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*02/07/22 15:28*	*02/11/22 03:56*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.58**	**J**	10.1	3.58	mg/Kg		02/01/22 20:44	02/03/22 01:49	1
Nitrate as N	**2.27**		1.01	0.109	mg/Kg		02/01/22 20:44	02/03/22 01:49	1
Fluoride	**3.20**	**J**	5.05	1.01	mg/Kg		02/01/22 20:44	02/03/22 01:49	1
Nitrite as N	**0.471**	**J**	1.01	0.0505	mg/Kg		02/01/22 20:44	02/03/22 01:49	1
Nitrate Nitrite as N	**2.74**		1.01	0.109	mg/Kg		02/01/22 20:44	02/03/22 01:49	1
Sulfate	**6.45**	**J**	10.1	4.36	mg/Kg		02/01/22 20:44	02/03/22 01:49	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0792	U	0.481	0.0792	ug/Kg		02/07/22 14:51	02/08/22 16:11	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.228	U	0.792	0.228	ug/Kg		02/07/22 10:31	02/16/22 10:28	1
Perfluorohexanesulfonic acid (PFHxS)	0.277	U	0.792	0.277	ug/Kg		02/07/22 10:31	02/16/22 10:28	1
Perfluorooctanesulfonic acid (PFOS)	0.139	U	0.792	0.139	ug/Kg		02/07/22 10:31	02/16/22 10:28	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square71-5-3-4-220128 Lab Sample ID: 860-19990-2

Date Collected: 01/28/22 10:40 **Matrix: Solid**
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	106		57 - 153	02/07/22 10:31	02/16/22 10:28	1
13C8 PFOS	102		70 - 130	02/07/22 10:31	02/16/22 10:28	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.139	U	1.75	0.139	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Arsenic	**1.91**	**J**	3.51	0.541	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Barium	**22.3**		3.51	0.304	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Beryllium	**0.328**	**J**	1.75	0.162	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Cadmium	0.102	U	1.75	0.102	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Chromium	**6.52**		3.51	0.238	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Copper	**1.83**	**J**	3.51	0.229	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Iron	**5590**		17.5	2.06	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Manganese	**37.8**		1.75	0.223	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Lead	**3.42**		1.75	0.170	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Antimony	**0.282**	**J**	1.75	0.104	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Selenium	0.435	U	1.75	0.435	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Thallium	0.210	U	1.75	0.210	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Uranium	**0.129**	**J**	0.877	0.0524	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Zinc	**13.5**		3.51	0.388	mg/Kg		02/04/22 11:08	02/07/22 19:37	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00491**	**J**	0.0182	0.00349	mg/Kg		02/01/22 08:30	02/01/22 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**37.5**	**J**	60.5	30.0	ug/Kg		02/09/22 15:50	02/09/22 17:37	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 14:02	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**	**HF**			SU			02/14/22 14:32	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**216**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	0.198	U	0.0932	0.0961	1.00	0.359	pCi/g	02/07/22 10:12	02/28/22 11:02	1
Radium-228	**0.332**		0.208	0.212		0.282	pCi/g	02/07/22 10:12	02/28/22 11:02	1
Combined Radium 226 + 228	**0.530**		0.228	0.233		0.359	pCi/g	02/07/22 10:12	02/28/22 11:02	1

Surrogate Summary

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

Job ID: 860-19990-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DBFM	BFB	DCA	TOL
Lab Sample ID	Client Sample ID	(50-136)	(61-142)	(65-152)	(65-139)
860-19990-1	Cell25-Square116-5-3-4-220128	98	111	102	94
860-19990-2	Cell25-Square71-5-3-4-220128	98	110	100	93
LCS 560-192728/3	Lab Control Sample	97	117	94	96
LCSD 560-192728/4	Lab Control Sample Dup	98	116	96	95
MB 560-192728/7	Method Blank	97	109	99	93

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCA
Lab Sample ID	Client Sample ID	(63-144)
860-19990-1	Cell25-Square116-5-3-4-220128	99
860-19990-2	Cell25-Square71-5-3-4-220128	98
LCS 860-40051/11	Lab Control Sample	101
LCSD 860-40051/12	Lab Control Sample Dup	102
MB 860-40051/16	Method Blank	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19990-1	Cell25-Square116-5-3-4-220128	93
860-19990-2	Cell25-Square71-5-3-4-220128	88
LCS 400-566137/2-A	Lab Control Sample	98
MB 400-566137/1-A	Method Blank	95

Surrogate Legend

TPP = Triphenylphosphate

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(30-115)	(25-121)	(19-122)	(23-129)	(24-113)	(18-137)
860-19990-1	Cell25-Square116-5-3-4-220128	75	75	94	68	73	88
860-19990-2	Cell25-Square71-5-3-4-220128	91	92	85	88	91	95
860-19990-2 MS	Cell25-Square71-5-3-4-220128	92	100	101	95	100	98
860-19990-2 MSD	Cell25-Square71-5-3-4-220128	71	74	92	72	74	91
LCS 860-39525/2-A	Lab Control Sample	79	78	87	74	77	82

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(30-115)	(25-121)	(19-122)	(23-129)	(24-113)	(18-137)
LCS 860-39639/2-A	Lab Control Sample	75	79	85	77	80	82
LCSD 860-39525/3-A	Lab Control Sample Dup	97	91	106	87	90	99
LCSD 860-39639/3-A	Lab Control Sample Dup	82	87	89	84	86	85
MB 860-39525/1-A	Method Blank	81	82	92	84	80	91
MB 860-39639/1-A	Method Blank	88	93	85	86	89	98

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(65-130)	(65-130)
860-19990-1	Cell25-Square116-5-3-4-220128	87	77
860-19990-1 MS	Cell25-Square116-5-3-4-220128	90	83
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	95	88
860-19990-2	Cell25-Square71-5-3-4-220128	99	86
LCS 860-40168/2-A	Lab Control Sample	90	83
LCSD 860-40168/3-A	Lab Control Sample Dup	88	83
MB 860-40168/1-A	Method Blank	93	82

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(35-135)	(25-143)
860-19990-1	Cell25-Square116-5-3-4-220128	74	81
860-19990-2	Cell25-Square71-5-3-4-220128	68	79
LCS 860-40042/2-A	Lab Control Sample	80	98
LCSD 860-40042/3-A	Lab Control Sample Dup	81	97
MB 860-40042/1-A	Method Blank	74	97

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

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)								
860-19990-1	Cell25-Square116-5-3-4-220128	74	78								
860-19990-2	Cell25-Square71-5-3-4-220128	66	69								
LCS 860-40042/14-A	Lab Control Sample	81	87								
LCSD 860-40042/15-A	Lab Control Sample Dup	79	83								
MB 860-40042/1-A	Method Blank	73	81								

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)									
860-19990-1	Cell25-Square116-5-3-4-220128	108									
860-19990-1 MS	Cell25-Square116-5-3-4-220128	103									
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	103									
860-19990-2	Cell25-Square71-5-3-4-220128	106									
860-19990-2 DU	Cell25-Square71-5-3-4-220128	107									
860-19990-2 TRL	Cell25-Square71-5-3-4-220128	105									
LCS 280-565273/2-A	Lab Control Sample	104									
MB 280-565273/1-A	Method Blank	106									

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)								
860-19990-1	Cell25-Square116-5-3-4-220128	103	104								
860-19990-1 MS	Cell25-Square116-5-3-4-220128	103	103								
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	103	105								
860-19990-2	Cell25-Square71-5-3-4-220128	106	102								
DLCK 280-556129/13	Lab Control Sample	98	105								
LCS 280-565221/2-A	Lab Control Sample	103	109								
MB 280-565221/1-A	Method Blank	104	104								

Surrogate Legend

C8PFOA = 13C8 PFOA

C8PFOS = 13C8 PFOS

QC Sample Results

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

Job ID: 860-19990-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192728/7
Matrix: Solid
Analysis Batch: 192728

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			02/01/22 12:08	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			02/01/22 12:08	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			02/01/22 12:08	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			02/01/22 12:08	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			02/01/22 12:08	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			02/01/22 12:08	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			02/01/22 12:08	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			02/01/22 12:08	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			02/01/22 12:08	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			02/01/22 12:08	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			02/01/22 12:08	1
Benzene	0.630	U	5.00	0.630	ug/Kg			02/01/22 12:08	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			02/01/22 12:08	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			02/01/22 12:08	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			02/01/22 12:08	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			02/01/22 12:08	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			02/01/22 12:08	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			02/01/22 12:08	1
Toluene	0.900	U	5.00	0.900	ug/Kg			02/01/22 12:08	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			02/01/22 12:08	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			02/01/22 12:08	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			02/01/22 12:08	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			02/01/22 12:08	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			02/01/22 12:08	1
Styrene	0.300	U	5.00	0.300	ug/Kg			02/01/22 12:08	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			02/01/22 12:08	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			02/01/22 12:08	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			02/01/22 12:08	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			02/01/22 12:08	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			02/01/22 12:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*50 - 136*		*02/01/22 12:08*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*02/01/22 12:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*65 - 152*		*02/01/22 12:08*	*1*
Toluene-d8 (Surr)	*93*		*65 - 139*		*02/01/22 12:08*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 560-192728/3
Matrix: Solid
Analysis Batch: 192728

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	27.81		ug/Kg		70	13 - 130
Chloromethane	40.0	28.56		ug/Kg		71	61 - 137
Vinyl chloride	40.0	30.74		ug/Kg		77	65 - 139
Bromomethane	40.0	30.04		ug/Kg		75	57 - 155
Trichlorofluoromethane	40.0	31.28		ug/Kg		78	68 - 146
Acrolein	395	349.8		ug/Kg		89	20 - 150
1,1-Dichloroethene	40.0	33.11		ug/Kg		83	70 - 130
trans-1,2-Dichloroethene	40.0	33.40		ug/Kg		84	70 - 132
Methyl tert-butyl ether	40.0	33.60		ug/Kg		84	70 - 130
1,3-Dichlorobenzene	40.0	33.01		ug/Kg		83	70 - 130
Methylene Chloride	40.0	34.04		ug/Kg		85	61 - 150
Acrylonitrile	400	333.9		ug/Kg		83	66 - 137
cis-1,2-Dichloroethene	40.0	33.88		ug/Kg		85	70 - 130
Carbon tetrachloride	40.0	30.63		ug/Kg		77	70 - 136
Benzene	40.0	33.74		ug/Kg		84	70 - 131
1,2-Dichloroethane	40.0	29.88		ug/Kg		75	70 - 130
Trichloroethene	40.0	31.51		ug/Kg		79	70 - 130
1,1,1-Trichloroethane	40.0	31.67		ug/Kg		79	70 - 132
1,1-Dichloroethane	40.0	32.61		ug/Kg		82	70 - 130
1,2-Dichloropropane	40.0	34.10		ug/Kg		85	70 - 130
1,4-Dioxane	800	661.1		ug/Kg		83	10 - 150
Chloroform	40.0	31.62		ug/Kg		79	70 - 130
Bromodichloromethane	40.0	32.99		ug/Kg		82	70 - 130
1,1-Dichloropropene	40.0	35.04		ug/Kg		88	70 - 130
cis-1,3-Dichloropropene	40.0	30.48		ug/Kg		76	70 - 130
Toluene	40.0	30.62		ug/Kg		77	70 - 130
trans-1,3-Dichloropropene	40.0	31.78		ug/Kg		79	70 - 131
1,1,2-Trichloroethane	40.0	31.02		ug/Kg		78	70 - 130
Tetrachloroethene	40.0	26.38	*	ug/Kg		66	70 - 130
1,3-Dichloropropene, Total	80.0	62.26		ug/Kg		78	
1,2-Dibromoethane	40.0	29.65		ug/Kg		74	70 - 130
Monochlorobenzene	40.0	29.60		ug/Kg		74	70 - 130
Ethylbenzene	40.0	32.94		ug/Kg		82	70 - 130
Xylenes, Total	80.0	68.53		ug/Kg		86	70 - 130
Styrene	40.0	33.32		ug/Kg		83	70 - 130
Tribromomethane	40.0	26.32		ug/Kg		66	59 - 137
1,1,2,2-Tetrachloroethane	40.0	35.87		ug/Kg		90	70 - 130
1,4-Dichlorobenzene	40.0	31.78		ug/Kg		79	70 - 130
1,2-Dichlorobenzene	40.0	33.18		ug/Kg		83	70 - 130
1,2,4-Trichlorobenzene	40.0	35.30		ug/Kg		88	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*50 - 136*
4-Bromofluorobenzene (Surr)	*117*		*61 - 142*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*96*		*65 - 139*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 560-192728/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192728

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			40.0	29.94		ug/Kg		75	13 - 130	7	30.0
Chloromethane			40.0	31.79		ug/Kg		79	61 - 137	11	30.0
Vinyl chloride			40.0	34.81		ug/Kg		87	65 - 139	12	30.0
Bromomethane			40.0	34.71		ug/Kg		87	57 - 155	14	30.0
Trichlorofluoromethane			40.0	36.85		ug/Kg		92	68 - 146	16	30.0
Acrolein			395	418.2		ug/Kg		106	20 - 150	18	30.0
1,1-Dichloroethene			40.0	39.62		ug/Kg		99	70 - 130	18	30.0
trans-1,2-Dichloroethene			40.0	39.09		ug/Kg		98	70 - 132	16	30.0
Methyl tert-butyl ether			40.0	40.41		ug/Kg		101	70 - 130	18	30.0
1,3-Dichlorobenzene			40.0	37.58		ug/Kg		94	70 - 130	13	30.0
Methylene Chloride			40.0	39.98		ug/Kg		100	61 - 150	16	30.0
Acrylonitrile			400	401.8		ug/Kg		100	66 - 137	18	30.0
cis-1,2-Dichloroethene			40.0	39.65		ug/Kg		99	70 - 130	16	30.0
Carbon tetrachloride			40.0	35.76		ug/Kg		89	70 - 136	15	30.0
Benzene			40.0	39.78		ug/Kg		99	70 - 131	16	30.0
1,2-Dichloroethane			40.0	35.30		ug/Kg		88	70 - 130	17	30.0
Trichloroethene			40.0	37.56		ug/Kg		94	70 - 130	18	30.0
1,1,1-Trichloroethane			40.0	35.61		ug/Kg		89	70 - 132	12	30.0
1,1-Dichloroethane			40.0	38.37		ug/Kg		96	70 - 130	16	30.0
1,2-Dichloropropane			40.0	40.38		ug/Kg		101	70 - 130	17	30.0
1,4-Dioxane			800	881.6		ug/Kg		110	10 - 150	29	30.0
Chloroform			40.0	36.89		ug/Kg		92	70 - 130	15	30.0
Bromodichloromethane			40.0	39.29		ug/Kg		98	70 - 130	17	30.0
1,1-Dichloropropene			40.0	40.73		ug/Kg		102	70 - 130	15	30.0
cis-1,3-Dichloropropene			40.0	35.87		ug/Kg		90	70 - 130	16	30.0
Toluene			40.0	35.67		ug/Kg		89	70 - 130	15	30.0
trans-1,3-Dichloropropene			40.0	38.22		ug/Kg		96	70 - 131	18	30.0
1,1,2-Trichloroethane			40.0	37.05		ug/Kg		93	70 - 130	18	30.0
Tetrachloroethene			40.0	29.91		ug/Kg		75	70 - 130	13	30.0
1,3-Dichloropropene, Total			80.0	74.09		ug/Kg		93		17	30
1,2-Dibromoethane			40.0	36.02		ug/Kg		90	70 - 130	19	30.0
Monochlorobenzene			40.0	34.31		ug/Kg		86	70 - 130	15	30.0
Ethylbenzene			40.0	38.55		ug/Kg		96	70 - 130	16	30.0
Xylenes, Total			80.0	80.97		ug/Kg		101	70 - 130	17	30.0
Styrene			40.0	39.35		ug/Kg		98	70 - 130	17	30.0
Tribromomethane			40.0	31.27		ug/Kg		78	59 - 137	17	30.0
1,1,2,2-Tetrachloroethane			40.0	41.83		ug/Kg		105	70 - 130	15	30.0
1,4-Dichlorobenzene			40.0	36.37		ug/Kg		91	70 - 130	13	30.0
1,2-Dichlorobenzene			40.0	37.66		ug/Kg		94	70 - 130	13	30.0
1,2,4-Trichlorobenzene			40.0	38.56		ug/Kg		96	68 - 140	9	30.0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*
1,2-Dichloroethane-d4 (Surr)	*96*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-40051/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

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			02/03/22 00:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*02/03/22 00:47*	*1*

Lab Sample ID: LCS 860-40051/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.05356		mg/Kg		107	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*

Lab Sample ID: LCSD 860-40051/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.05670		mg/Kg		113	65 - 135	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-566137/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/10/22 13:25	02/14/22 17:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*95*		*30 - 164*	*02/10/22 13:25*	*02/14/22 17:25*	*1*

Lab Sample ID: LCS 400-566137/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	313.3		ug/Kg		94	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*98*		*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39525/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

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		01/31/22 07:24	01/31/22 15:17	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/31/22 07:24	01/31/22 15:17	1

QC Sample Results

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

Job ID: 860-19990-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39525/1-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/31/22 07:24	01/31/22 15:17	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.667*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 07:24*	*01/31/22 15:17*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*30 - 115*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
2-Fluorophenol	*82*		*25 - 121*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
2,4,6-Tribromophenol	*92*		*19 - 122*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
Nitrobenzene-d5	*84*		*23 - 129*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
Phenol-d5 (Surr)	*80*		*24 - 113*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
p-Terphenyl-d14 (Surr)	*91*		*18 - 137*	*01/31/22 07:24*	*01/31/22 15:17*	*1*

Lab Sample ID: LCS 860-39525/2-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	758.3		ug/Kg		57	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	828.6		ug/Kg		62	35 - 135
1-Methylnaphthalene	1330	792.3		ug/Kg		59	38 - 127
bis (2-chloroisopropyl) ether	1330	552.7		ug/Kg		41	25 - 124
2,4,5-Trichlorophenol	1330	864.1		ug/Kg		65	40 - 135
2,4,6-Trichlorophenol	1330	851.3		ug/Kg		64	39 - 139
2,4-Dinitrotoluene	1330	820.1		ug/Kg		62	48 - 131
Dinitrophenols	1330	703.9		ug/Kg		53	19 - 131
2,4-Dichlorophenol	1330	870.3		ug/Kg		65	36 - 135
2,6-Dinitrotoluene	1330	768.3		ug/Kg		58	42 - 136
Dichlorobenzidine, 3,3'-	1330	668.5		ug/Kg		50	35 - 134
4,6-Dinitro-2-methylphenol	1330	776.6		ug/Kg		58	30 - 146
Acenaphthene	1330	752.5		ug/Kg		56	37 - 131
Anthracene	1330	805.2		ug/Kg		60	39 - 139
Acenaphthylene	1330	766.0		ug/Kg		57	39 - 129
Benzo[a]anthracene	1330	792.5		ug/Kg		59	44 - 135
Benzo[b]fluoranthene	1330	791.7		ug/Kg		59	40 - 153
Benzo[k]fluoranthene	1330	840.9		ug/Kg		63	33 - 156
Benzo[g,h,i]perylene	1330	730.7		ug/Kg		55	40 - 153
Benzo[a]pyrene	1330	781.0		ug/Kg		59	43 - 153
Di (2-ethylhexyl)phthalate	1330	865.0		ug/Kg		65	46 - 145
Bis(2-chloroethyl)ether	1330	641.8		ug/Kg		48	33 - 127
Chrysene	1330	753.3		ug/Kg		56	42 - 135
Dibutylphthalate	1330	792.2		ug/Kg		59	43 - 142
Dibenz(a,h)anthracene	1330	741.2		ug/Kg		56	41 - 155
Diethyl phthalate	1330	755.0		ug/Kg		57	45 - 131
Dimethyl phthalate	1330	748.1		ug/Kg		56	43 - 132

QC Sample Results

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

Job ID: 860-19990-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39525/2-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	1330	772.9		ug/Kg		58	41 - 138
Fluorene	1330	777.0		ug/Kg		58	41 - 131
Hexachlorobenzene	1330	800.2		ug/Kg		60	36 - 142
Hexachlorobutadiene	1330	835.3		ug/Kg		63	35 - 129
Hexachlorocyclopentadiene	1330	975.8		ug/Kg		73	16 - 106
Hexachloroethane	1330	710.2		ug/Kg		53	36 - 121
Indeno[1,2,3-cd]pyrene	1330	741.3		ug/Kg		56	39 - 154
Isophorone	1330	743.4		ug/Kg		56	36 - 128
N-Nitrosodi-n-butylamine	1330	766.3		ug/Kg		57	34 - 135
N-Nitrosodiethylamine	1330	801.8		ug/Kg		60	36 - 127
N-Nitrosodiphenylamine	1330	800.6		ug/Kg		60	27 - 155
N-Nitrosopyrrolidine	1330	762.5		ug/Kg		57	38 - 136
Pentachlorobenzene	1330	767.7		ug/Kg		58	38 - 136
Pentachlorophenol	1330	870.3		ug/Kg		65	14 - 148
Phenanthrene	1330	777.9		ug/Kg		58	37 - 139
Pyrene	1330	841.1		ug/Kg		63	42 - 138
Naphthalene	1330	792.2		ug/Kg		59	35 - 128
2-Methylnaphthalene	1330	796.2		ug/Kg		60	36 - 126
Nitrobenzene	1330	779.9		ug/Kg		58	32 - 129
Benzidine	1330	247.7	J	ug/Kg		19	12 - 112
Phenol	1.33	0.7528		mg/Kg		56	34 - 127
N-Nitrosodimethylamine	1330	767.2		ug/Kg		58	27 - 126
Atrazine	1330	561.2		ug/Kg		42	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1330	638.5		ug/Kg		48	30 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*30 - 115*
2-Fluorophenol	*78*		*25 - 121*
2,4,6-Tribromophenol	*87*		*19 - 122*
Nitrobenzene-d5	*74*		*23 - 129*
Phenol-d5 (Surr)	*77*		*24 - 113*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*

Lab Sample ID: LCSD 860-39525/3-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	1330	899.2		ug/Kg		67	20 - 157	17	30
1,2,4,5-Tetrachlorobenzene	1330	991.4		ug/Kg		74	35 - 135	18	30
1-Methylnaphthalene	1330	913.6		ug/Kg		69	38 - 127	14	30
bis (2-chloroisopropyl) ether	1330	652.6		ug/Kg		49	25 - 124	17	30
2,4,5-Trichlorophenol	1330	1068		ug/Kg		80	40 - 135	21	30
2,4,6-Trichlorophenol	1330	1027		ug/Kg		77	39 - 139	19	30
2,4-Dinitrotoluene	1330	996.4		ug/Kg		75	48 - 131	19	30
Dinitrophenols	1330	865.9		ug/Kg		65	19 - 131	21	40
2,4-Dichlorophenol	1330	1028		ug/Kg		77	36 - 135	17	30

QC Sample Results

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

Job ID: 860-19990-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39525/3-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39525

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,6-Dinitrotoluene			1330	946.2		ug/Kg		71	42 - 136	21	30
Dichlorobenzidine, 3,3'-			1330	749.6		ug/Kg		56	35 - 134	11	40
4,6-Dinitro-2-methylphenol			1330	984.9		ug/Kg		74	30 - 146	24	40
Acenaphthene			1330	925.8		ug/Kg		69	37 - 131	21	30
Anthracene			1330	966.2		ug/Kg		72	39 - 139	18	30
Acenaphthylene			1330	934.2		ug/Kg		70	39 - 129	20	30
Benzo[a]anthracene			1330	954.4		ug/Kg		72	44 - 135	19	30
Benzo[b]fluoranthene			1330	953.0		ug/Kg		71	40 - 153	18	30
Benzo[k]fluoranthene			1330	1007		ug/Kg		76	33 - 156	18	30
Benzo[g,h,i]perylene			1330	908.8		ug/Kg		68	40 - 153	22	30
Benzo[a]pyrene			1330	945.4		ug/Kg		71	43 - 153	19	30
Di (2-ethylhexyl)phthalate			1330	1053		ug/Kg		79	46 - 145	20	30
Bis(2-chloroethyl)ether			1330	767.8		ug/Kg		58	33 - 127	18	30
Chrysene			1330	916.1		ug/Kg		69	42 - 135	20	30
Dibutylphthalate			1330	965.3		ug/Kg		72	43 - 142	20	30
Dibenz(a,h)anthracene			1330	887.4		ug/Kg		67	41 - 155	18	30
Diethyl phthalate			1330	892.3		ug/Kg		67	45 - 131	17	30
Dimethyl phthalate			1330	916.7		ug/Kg		69	43 - 132	20	30
Fluoranthene			1330	900.5		ug/Kg		68	41 - 138	15	30
Fluorene			1330	934.1		ug/Kg		70	41 - 131	18	30
Hexachlorobenzene			1330	969.6		ug/Kg		73	36 - 142	19	30
Hexachlorobutadiene			1330	970.6		ug/Kg		73	35 - 129	15	30
Hexachlorocyclopentadiene			1330	1156		ug/Kg		87	16 - 106	17	30
Hexachloroethane			1330	842.6		ug/Kg		63	36 - 121	17	30
Indeno[1,2,3-cd]pyrene			1330	879.3		ug/Kg		66	39 - 154	17	30
Isophorone			1330	852.9		ug/Kg		64	36 - 128	14	30
N-Nitrosodi-n-butylamine			1330	896.9		ug/Kg		67	34 - 135	16	30
N-Nitrosodiethylamine			1330	946.7		ug/Kg		71	36 - 127	17	30
N-Nitrosodiphenylamine			1330	938.1		ug/Kg		70	27 - 155	16	30
N-Nitrosopyrrolidine			1330	854.3		ug/Kg		64	38 - 136	11	30
Pentachlorobenzene			1330	963.6		ug/Kg		72	38 - 136	23	30
Pentachlorophenol			1330	985.6		ug/Kg		74	14 - 148	12	40
Phenanthrene			1330	932.3		ug/Kg		70	37 - 139	18	30
Pyrene			1330	1052		ug/Kg		79	42 - 138	22	30
Naphthalene			1330	918.4		ug/Kg		69	35 - 128	15	30
2-Methylnaphthalene			1330	934.0		ug/Kg		70	36 - 126	16	30
Nitrobenzene			1330	917.7		ug/Kg		69	32 - 129	16	30
Benzidine			1330	348.0		ug/Kg		26	12 - 112	34	40
Phenol			1.33	0.8851		mg/Kg		66	34 - 127	16	40
N-Nitrosodimethylamine			1330	885.8		ug/Kg		66	27 - 126	14	30
Atrazine			1330	922.0	*	ug/Kg		69	18 - 134	49	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	747.1		ug/Kg		56	30 - 130	16	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*97*		*30 - 115*
2-Fluorophenol	*91*		*25 - 121*
2,4,6-Tribromophenol	*106*		*19 - 122*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39525/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5	87		23 - 129
Phenol-d5 (Surr)	90		24 - 113
p-Terphenyl-d14 (Surr)	99		18 - 137

Lab Sample ID: MB 860-39639/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

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		01/31/22 15:04	02/01/22 21:02	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39639/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/31/22 15:04	02/01/22 21:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*30 - 115*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
2-Fluorophenol	*93*		*25 - 121*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
2,4,6-Tribromophenol	*85*		*19 - 122*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
Nitrobenzene-d5	*86*		*23 - 129*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
Phenol-d5 (Surr)	*89*		*24 - 113*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
p-Terphenyl-d14 (Surr)	*98*		*18 - 137*	*01/31/22 15:04*	*02/01/22 21:02*	*1*

Lab Sample ID: LCS 860-39639/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	874.6		ug/Kg		66	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	808.2		ug/Kg		61	35 - 135
1-Methylnaphthalene	1330	816.4		ug/Kg		61	38 - 127
bis (2-chloroisopropyl) ether	1330	779.8		ug/Kg		58	25 - 124
2,4,5-Trichlorophenol	1330	927.5		ug/Kg		70	40 - 135
2,4,6-Trichlorophenol	1330	892.7		ug/Kg		67	39 - 139
2,4-Dinitrotoluene	1330	853.2		ug/Kg		64	48 - 131
Dinitrophenols	1330	850.2		ug/Kg		64	19 - 131
2,4-Dichlorophenol	1330	894.4		ug/Kg		67	36 - 135
2,6-Dinitrotoluene	1330	949.9		ug/Kg		71	42 - 136
Dichlorobenzidine, 3,3'-	1330	738.8		ug/Kg		55	35 - 134
4,6-Dinitro-2-methylphenol	1330	859.4		ug/Kg		64	30 - 146
Acenaphthene	1330	809.3		ug/Kg		61	37 - 131
Anthracene	1330	891.3		ug/Kg		67	39 - 139
Acenaphthylene	1330	846.2		ug/Kg		63	39 - 129
Benzo[a]anthracene	1330	850.8		ug/Kg		64	44 - 135
Benzo[b]fluoranthene	1330	903.2		ug/Kg		68	40 - 153
Benzo[k]fluoranthene	1330	929.8		ug/Kg		70	33 - 156
Benzo[g,h,i]perylene	1330	950.8		ug/Kg		71	40 - 153
Benzo[a]pyrene	1330	968.4		ug/Kg		73	43 - 153
Di (2-ethylhexyl)phthalate	1330	813.5		ug/Kg		61	46 - 145
Bis(2-chloroethyl)ether	1330	782.9		ug/Kg		59	33 - 127

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39639/2-A
Matrix: Solid
Analysis Batch: 39861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	1330	829.6		ug/Kg		62	42 - 135
Dibutylphthalate	1330	989.1		ug/Kg		74	43 - 142
Dibenz(a,h)anthracene	1330	938.2		ug/Kg		70	41 - 155
Diethyl phthalate	1330	880.2		ug/Kg		66	45 - 131
Dimethyl phthalate	1330	852.7		ug/Kg		64	43 - 132
Fluoranthene	1330	919.1		ug/Kg		69	41 - 138
Fluorene	1330	841.1		ug/Kg		63	41 - 131
Hexachlorobenzene	1330	850.7		ug/Kg		64	36 - 142
Hexachlorobutadiene	1330	790.6		ug/Kg		59	35 - 129
Hexachlorocyclopentadiene	1330	840.4		ug/Kg		63	16 - 106
Hexachloroethane	1330	803.1		ug/Kg		60	36 - 121
Indeno[1,2,3-cd]pyrene	1330	953.5		ug/Kg		72	39 - 154
Isophorone	1330	832.7		ug/Kg		62	36 - 128
N-Nitrosodi-n-butylamine	1330	1004		ug/Kg		75	34 - 135
N-Nitrosodiethylamine	1330	829.3		ug/Kg		62	36 - 127
N-Nitrosodiphenylamine	1330	882.4		ug/Kg		66	27 - 155
N-Nitrosopyrrolidine	1330	891.2		ug/Kg		67	38 - 136
Pentachlorobenzene	1330	839.4		ug/Kg		63	38 - 136
Pentachlorophenol	1330	805.8		ug/Kg		60	14 - 148
Phenanthrene	1330	838.2		ug/Kg		63	37 - 139
Pyrene	1330	871.8		ug/Kg		65	42 - 138
Naphthalene	1330	791.0		ug/Kg		59	35 - 128
2-Methylnaphthalene	1330	822.6		ug/Kg		62	36 - 126
Nitrobenzene	1330	829.2		ug/Kg		62	32 - 129
Benzidine	1330	364.8		ug/Kg		27	12 - 112
Phenol	1.33	0.8518		mg/Kg		64	34 - 127
N-Nitrosodimethylamine	1330	792.4		ug/Kg		59	27 - 126
Atrazine	1330	1094		ug/Kg		82	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1330	774.2		ug/Kg		58	30 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*30 - 115*
2-Fluorophenol	*79*		*25 - 121*
2,4,6-Tribromophenol	*85*		*19 - 122*
Nitrobenzene-d5	*77*		*23 - 129*
Phenol-d5 (Surr)	*80*		*24 - 113*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*

Lab Sample ID: LCSD 860-39639/3-A
Matrix: Solid
Analysis Batch: 39861

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39639

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	1330	959.6		ug/Kg		72	20 - 157	9	30
1,2,4,5-Tetrachlorobenzene	1330	897.1		ug/Kg		67	35 - 135	10	30
1-Methylnaphthalene	1330	888.9		ug/Kg		67	38 - 127	9	30
bis (2-chloroisopropyl) ether	1330	850.2		ug/Kg		64	25 - 124	9	30

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39639/3-A
Matrix: Solid
Analysis Batch: 39861

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39639

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	1330	1033		ug/Kg		77	40 - 135	11	30
2,4,6-Trichlorophenol	1330	1019		ug/Kg		76	39 - 139	13	30
2,4-Dinitrotoluene	1330	933.1		ug/Kg		70	48 - 131	9	30
Dinitrophenols	1330	941.5		ug/Kg		71	19 - 131	10	40
2,4-Dichlorophenol	1330	981.5		ug/Kg		74	36 - 135	9	30
2,6-Dinitrotoluene	1330	1054		ug/Kg		79	42 - 136	10	30
Dichlorobenzidine, 3,3'-	1330	796.1		ug/Kg		60	35 - 134	7	40
4,6-Dinitro-2-methylphenol	1330	938.7		ug/Kg		70	30 - 146	9	40
Acenaphthene	1330	900.9		ug/Kg		68	37 - 131	11	30
Anthracene	1330	957.3		ug/Kg		72	39 - 139	7	30
Acenaphthylene	1330	947.1		ug/Kg		71	39 - 129	11	30
Benzo[a]anthracene	1330	930.5		ug/Kg		70	44 - 135	9	30
Benzo[b]fluoranthene	1330	961.1		ug/Kg		72	40 - 153	6	30
Benzo[k]fluoranthene	1330	1010		ug/Kg		76	33 - 156	8	30
Benzo[g,h,i]perylene	1330	1034		ug/Kg		78	40 - 153	8	30
Benzo[a]pyrene	1330	1042		ug/Kg		78	43 - 153	7	30
Di (2-ethylhexyl)phthalate	1330	872.8		ug/Kg		65	46 - 145	7	30
Bis(2-chloroethyl)ether	1330	861.0		ug/Kg		65	33 - 127	9	30
Chrysene	1330	898.5		ug/Kg		67	42 - 135	8	30
Dibutylphthalate	1330	1061		ug/Kg		80	43 - 142	7	30
Dibenz(a,h)anthracene	1330	1022		ug/Kg		77	41 - 155	9	30
Diethyl phthalate	1330	960.3		ug/Kg		72	45 - 131	9	30
Dimethyl phthalate	1330	940.1		ug/Kg		71	43 - 132	10	30
Fluoranthene	1330	994.2		ug/Kg		75	41 - 138	8	30
Fluorene	1330	936.7		ug/Kg		70	41 - 131	11	30
Hexachlorobenzene	1330	918.1		ug/Kg		69	36 - 142	8	30
Hexachlorobutadiene	1330	879.5		ug/Kg		66	35 - 129	11	30
Hexachlorocyclopentadiene	1330	941.9		ug/Kg		71	16 - 106	11	30
Hexachloroethane	1330	874.6		ug/Kg		66	36 - 121	9	30
Indeno[1,2,3-cd]pyrene	1330	1047		ug/Kg		79	39 - 154	9	30
Isophorone	1330	910.5		ug/Kg		68	36 - 128	9	30
N-Nitrosodi-n-butylamine	1330	1098		ug/Kg		82	34 - 135	9	30
N-Nitrosodiethylamine	1330	932.0		ug/Kg		70	36 - 127	12	30
N-Nitrosodiphenylamine	1330	973.6		ug/Kg		73	27 - 155	10	30
N-Nitrosopyrrolidine	1330	981.1		ug/Kg		74	38 - 136	10	30
Pentachlorobenzene	1330	935.9		ug/Kg		70	38 - 136	11	30
Pentachlorophenol	1330	931.9		ug/Kg		70	14 - 148	15	40
Phenanthrene	1330	908.2		ug/Kg		68	37 - 139	8	30
Pyrene	1330	927.4		ug/Kg		70	42 - 138	6	30
Naphthalene	1330	873.4		ug/Kg		66	35 - 128	10	30
2-Methylnaphthalene	1330	903.5		ug/Kg		68	36 - 126	9	30
Nitrobenzene	1330	923.8		ug/Kg		69	32 - 129	11	30
Benzidine	1330	322.1	J	ug/Kg		24	12 - 112	12	40
Phenol	1.33	0.9432		mg/Kg		71	34 - 127	10	40
N-Nitrosodimethylamine	1330	883.0		ug/Kg		66	27 - 126	11	30
Atrazine	1330	1171		ug/Kg		88	18 - 134	7	40
Thiophene, tetrahydro-, 1,1-dioxide	1330	828.0		ug/Kg		62	30 - 130	7	30

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39639/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	82		30 - 115
2-Fluorophenol	87		25 - 121
2,4,6-Tribromophenol	89		19 - 122
Nitrobenzene-d5	84		23 - 129
Phenol-d5 (Surr)	86		24 - 113
p-Terphenyl-d14 (Surr)	85		18 - 137

Lab Sample ID: 860-19990-2 MS **Client Sample ID: Cell25-Square71-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	17.3	U	1320	1040		ug/Kg		79	20 - 157
1,2,4,5-Tetrachlorobenzene	16.4	U	1320	977.5		ug/Kg		74	35 - 135
1-Methylnaphthalene	26.6	U	1320	986.1		ug/Kg		75	38 - 127
bis (2-chloroisopropyl) ether	17.7	U	1320	952.8		ug/Kg		72	25 - 124
2,4,5-Trichlorophenol	19.0	U	1320	1112		ug/Kg		84	40 - 135
2,4,6-Trichlorophenol	15.7	U	1320	1107		ug/Kg		84	39 - 139
2,4-Dinitrotoluene	12.7	U	1320	1003		ug/Kg		76	48 - 131
Dinitrophenols	24.1	U	1320	1056		ug/Kg		80	19 - 131
2,4-Dichlorophenol	17.4	U	1320	1097		ug/Kg		83	36 - 135
2,6-Dinitrotoluene	23.2	U	1320	1131		ug/Kg		86	42 - 136
Dichlorobenzidine, 3,3'-	15.3	U	1320	907.9		ug/Kg		69	35 - 134
4,6-Dinitro-2-methylphenol	12.7	U	1320	1048		ug/Kg		80	30 - 146
Acenaphthene	15.4	U	1320	992.0		ug/Kg		75	37 - 131
Anthracene	13.8	U	1320	1046		ug/Kg		79	39 - 139
Acenaphthylene	14.7	U	1320	1024		ug/Kg		78	39 - 129
Benzo[a]anthracene	14.0	U	1320	1006		ug/Kg		76	44 - 135
Benzo[b]fluoranthene	12.5	U	1320	1051		ug/Kg		80	40 - 153
Benzo[k]fluoranthene	19.3	U	1320	1113		ug/Kg		84	33 - 156
Benzo[g,h,i]perylene	15.3	U	1320	1148		ug/Kg		87	40 - 153
Benzo[a]pyrene	17.1	U	1320	1155		ug/Kg		88	43 - 153
Di (2-ethylhexyl)phthalate	166	U	1320	998.1		ug/Kg		76	46 - 145
Bis(2-chloroethyl)ether	15.1	U	1320	968.6		ug/Kg		73	33 - 127
Chrysene	16.5	U	1320	975.9		ug/Kg		74	42 - 135
Dibutylphthalate	16.0	U	1320	1183		ug/Kg		90	43 - 142
Dibenz(a,h)anthracene	12.6	U	1320	1148		ug/Kg		87	41 - 155
Diethyl phthalate	15.2	U	1320	1035		ug/Kg		79	45 - 131
Dimethyl phthalate	15.8	U	1320	1013		ug/Kg		77	43 - 132
Fluoranthene	14.6	U	1320	1087		ug/Kg		82	41 - 138
Fluorene	13.8	U	1320	1007		ug/Kg		76	41 - 131
Hexachlorobenzene	16.1	U	1320	1012		ug/Kg		77	36 - 142
Hexachlorobutadiene	13.8	U	1320	972.0		ug/Kg		74	35 - 129
Hexachlorocyclopentadiene	15.1	U	1320	1063		ug/Kg		81	16 - 106
Hexachloroethane	17.2	U	1320	957.5		ug/Kg		73	36 - 121
Indeno[1,2,3-cd]pyrene	13.4	U	1320	1166		ug/Kg		88	39 - 154
Isophorone	14.5	U	1320	1014		ug/Kg		77	36 - 128
N-Nitrosodi-n-butylamine	25.2	U	1320	1207		ug/Kg		92	34 - 135

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-19990-2 MS **Client Sample ID: Cell25-Square71-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	21.8	U	1320	1009		ug/Kg		77	36 - 127
N-Nitrosodiphenylamine	18.5	U	1320	1050		ug/Kg		80	27 - 155
N-Nitrosopyrrolidine	14.0	U	1320	1101		ug/Kg		84	38 - 136
Pentachlorobenzene	15.8	U	1320	1017		ug/Kg		77	38 - 136
Pentachlorophenol	12.1	U	1320	1009		ug/Kg		77	14 - 148
Phenanthrene	16.5	U	1320	984.0		ug/Kg		75	37 - 139
Pyrene	14.5	U	1320	1026		ug/Kg		78	42 - 138
Naphthalene	15.6	U	1320	960.6		ug/Kg		73	35 - 128
2-Methylnaphthalene	45.0	U	1320	996.8		ug/Kg		76	36 - 126
Nitrobenzene	18.4	U	1320	1016		ug/Kg		77	32 - 129
Benzidine	12.0	U	1320	502.9		ug/Kg		38	12 - 112
Phenol	0.0149	U	1.32	1.052		mg/Kg		80	34 - 127
N-Nitrosodimethylamine	16.7	U	1320	923.7		ug/Kg		70	27 - 126
Atrazine	16.4	U	1320	1285		ug/Kg		98	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	332	U	1320	914.4		ug/Kg		69	

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*92*		*30 - 115*
2-Fluorophenol	*100*		*25 - 121*
2,4,6-Tribromophenol	*101*		*19 - 122*
Nitrobenzene-d5	*95*		*23 - 129*
Phenol-d5 (Surr)	*100*		*24 - 113*
p-Terphenyl-d14 (Surr)	*98*		*18 - 137*

Lab Sample ID: 860-19990-2 MSD **Client Sample ID: Cell25-Square71-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	17.3	U	1310	898.9		ug/Kg		69	20 - 157	15	30
1,2,4,5-Tetrachlorobenzene	16.4	U	1310	743.6		ug/Kg		57	35 - 135	27	30
1-Methylnaphthalene	26.6	U	1310	759.4		ug/Kg		58	38 - 127	26	30
bis (2-chloroisopropyl) ether	17.7	U	1310	716.4		ug/Kg		55	25 - 124	28	30
2,4,5-Trichlorophenol	19.0	U	1310	940.3		ug/Kg		72	40 - 135	17	30
2,4,6-Trichlorophenol	15.7	U	1310	903.0		ug/Kg		69	39 - 139	20	30
2,4-Dinitrotoluene	12.7	U	1310	910.6		ug/Kg		69	48 - 131	10	30
Dinitrophenols	24.1	U	1310	919.2		ug/Kg		70	19 - 131	14	40
2,4-Dichlorophenol	17.4	U	1310	840.4		ug/Kg		64	36 - 135	26	30
2,6-Dinitrotoluene	23.2	U	1310	981.6		ug/Kg		75	42 - 136	14	30
Dichlorobenzidine, 3,3'-	15.3	U	1310	848.1		ug/Kg		65	35 - 134	7	40
4,6-Dinitro-2-methylphenol	12.7	U	1310	951.6		ug/Kg		73	30 - 146	10	40
Acenaphthene	15.4	U	1310	791.5		ug/Kg		60	37 - 131	22	30
Anthracene	13.8	U	1310	949.7		ug/Kg		72	39 - 139	10	30
Acenaphthylene	14.7	U	1310	818.3		ug/Kg		62	39 - 129	22	30
Benzo[a]anthracene	14.0	U	1310	932.5		ug/Kg		71	44 - 135	8	30
Benzo[b]fluoranthene	12.5	U	1310	963.0		ug/Kg		73	40 - 153	9	30
Benzo[k]fluoranthene	19.3	U	1310	1031		ug/Kg		79	33 - 156	8	30

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-19990-2 MSD **Client Sample ID: Cell25-Square71-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[g,h,i]perylene	15.3	U	1310	1039		ug/Kg		79	40 - 153	10	30
Benzo[a]pyrene	17.1	U	1310	1063		ug/Kg		81	43 - 153	8	30
Di (2-ethylhexyl)phthalate	166	U	1310	922.1		ug/Kg		70	46 - 145	8	30
Bis(2-chloroethyl)ether	15.1	U	1310	742.8		ug/Kg		57	33 - 127	26	30
Chrysene	16.5	U	1310	909.5		ug/Kg		69	42 - 135	7	30
Dibutylphthalate	16.0	U	1310	1092		ug/Kg		83	43 - 142	8	30
Dibenz(a,h)anthracene	12.6	U	1310	1042		ug/Kg		79	41 - 155	10	30
Diethyl phthalate	15.2	U	1310	943.5		ug/Kg		72	45 - 131	9	30
Dimethyl phthalate	15.8	U	1310	881.7		ug/Kg		67	43 - 132	14	30
Fluoranthene	14.6	U	1310	1003		ug/Kg		76	41 - 138	8	30
Fluorene	13.8	U	1310	847.9		ug/Kg		65	41 - 131	17	30
Hexachlorobenzene	16.1	U	1310	893.8		ug/Kg		68	36 - 142	12	30
Hexachlorobutadiene	13.8	U	1310	737.6		ug/Kg		56	35 - 129	27	30
Hexachlorocyclopentadiene	15.1	U	1310	796.3		ug/Kg		61	16 - 106	29	30
Hexachloroethane	17.2	U	1310	718.2		ug/Kg		55	36 - 121	29	30
Indeno[1,2,3-cd]pyrene	13.4	U	1310	1063		ug/Kg		81	39 - 154	9	30
Isophorone	14.5	U	1310	781.8		ug/Kg		60	36 - 128	26	30
N-Nitrosodi-n-butylamine	25.2	U	1310	977.5		ug/Kg		75	34 - 135	21	30
N-Nitrosodiethylamine	21.8	U	1310	768.6		ug/Kg		59	36 - 127	27	30
N-Nitrosodiphenylamine	18.5	U	1310	934.0		ug/Kg		71	27 - 155	12	30
N-Nitrosopyrrolidine	14.0	U	1310	839.9		ug/Kg		64	38 - 136	27	30
Pentachlorobenzene	15.8	U	1310	817.4		ug/Kg		62	38 - 136	22	30
Pentachlorophenol	12.1	U	1310	942.5		ug/Kg		72	14 - 148	7	40
Phenanthrene	16.5	U	1310	888.3		ug/Kg		68	37 - 139	10	30
Pyrene	14.5	U	1310	958.5		ug/Kg		73	42 - 138	7	30
Naphthalene	15.6	U	1310	730.0		ug/Kg		56	35 - 128	27	30
2-Methylnaphthalene	45.0	U	1310	756.6		ug/Kg		58	36 - 126	27	30
Nitrobenzene	18.4	U	1310	775.0		ug/Kg		59	32 - 129	27	30
Benzidine	12.0	U	1310	422.3		ug/Kg		32	12 - 112	17	40
Phenol	0.0149	U	1.31	0.7890		mg/Kg		60	34 - 127	29	40
N-Nitrosodimethylamine	16.7	U	1310	714.3		ug/Kg		54	27 - 126	26	30
Atrazine	16.4	U	1310	1172		ug/Kg		89	18 - 134	9	40
Thiophene, tetrahydro-, 1,1-dioxide	332	U	1310	745.3		ug/Kg		57		20	

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*30 - 115*
2-Fluorophenol	*74*		*25 - 121*
2,4,6-Tribromophenol	*92*		*19 - 122*
Nitrobenzene-d5	*72*		*23 - 129*
Phenol-d5 (Surr)	*74*		*24 - 113*
p-Terphenyl-d14 (Surr)	*91*		*18 - 137*

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-40168/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40117
Prep Batch: 40168

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 14:42	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 14:42	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 14:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*65 - 130*	*02/03/22 13:11*	*02/03/22 14:42*	*1*
o-Terphenyl (Surr)	*82*		*65 - 130*	*02/03/22 13:11*	*02/03/22 14:42*	*1*

Lab Sample ID: LCS 860-40168/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40117
Prep Batch: 40168

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	994	950.3		mg/Kg		96	70 - 135
Diesel Range Organics (Over C10-C28)	996	912.0		mg/Kg		92	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*90*		*65 - 130*
o-Terphenyl (Surr)	*83*		*65 - 130*

Lab Sample ID: LCSD 860-40168/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40117
Prep Batch: 40168

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	994	950.2		mg/Kg		96	70 - 135	0	35
Diesel Range Organics (Over C10-C28)	996	927.1		mg/Kg		93	70 - 135	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*65 - 130*
o-Terphenyl (Surr)	*83*		*65 - 130*

Lab Sample ID: 860-19990-1 MS
Client Sample ID: Cell25-Square116-5-3-4-220128
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40117
Prep Batch: 40168

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	21.1	U	992	965.4		mg/Kg		97	70 - 135
Diesel Range Organics (Over C10-C28)	21.1	U	994	934.5		mg/Kg		94	70 - 135

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: 860-19990-1 MS **Client Sample ID: Cell25-Square116-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40117 **Prep Batch: 40168**

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	90		65 - 130
o-Terphenyl (Surr)	83		65 - 130

Lab Sample ID: 860-19990-1 MSD **Client Sample ID: Cell25-Square116-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40117 **Prep Batch: 40168**

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	21.1	U	994	1029		mg/Kg		103	70 - 135	6	35
Diesel Range Organics (Over C10-C28)	21.1	U	996	1001		mg/Kg		100	70 - 135	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	95		65 - 130
o-Terphenyl (Surr)	88		65 - 130

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-40042/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endrin	0.291	U	0.833	0.291	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		02/02/22 17:01	02/03/22 10:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		35 - 135	02/02/22 17:01	02/03/22 10:30	1
DCB Decachlorobiphenyl (Surr)	97		25 - 143	02/02/22 17:01	02/03/22 10:30	1

QC Sample Results

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

Job ID: 860-19990-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 860-40042/2-A
Matrix: Solid
Analysis Batch: 40085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40042

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DDT			16.7	19.00		ug/Kg		114	13 - 192		
Aldrin			16.7	15.48		ug/Kg		93	30 - 152		
Hexachlorocyclohexane, alpha-			16.7	16.23		ug/Kg		97	29 - 160		
Hexachlorocyclohexane, beta-			16.7	15.71		ug/Kg		94	30 - 155		
Hexachlorocyclohexane, delta-			16.7	16.67		ug/Kg		100	20 - 161		
Dieldrin			16.7	16.54		ug/Kg		99	33 - 153		
Endosulfan I			16.7	16.10		ug/Kg		97	30 - 151		
Endosulfan II			16.7	16.72		ug/Kg		100	27 - 153		
Endosulfan sulfate			16.7	17.54		ug/Kg		105	15 - 170		
Endrin			16.7	16.76		ug/Kg		101	25 - 162		
Endrin aldehyde			16.7	16.07		ug/Kg		96	49 - 117		
Hexachlorocyclohexane, gamma-			16.7	16.67		ug/Kg		100	30 - 158		
Heptachlor			16.7	16.14		ug/Kg		97	29 - 163		
Heptachlor epoxide			16.7	15.75		ug/Kg		94	30 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*98*		*25 - 143*

Lab Sample ID: LCSD 860-40042/3-A
Matrix: Solid
Analysis Batch: 40085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40042

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT			16.7	17.60		ug/Kg		106	13 - 192	8	25
Aldrin			16.7	15.39		ug/Kg		92	30 - 152	1	25
Hexachlorocyclohexane, alpha-			16.7	16.97		ug/Kg		102	29 - 160	4	25
Hexachlorocyclohexane, beta-			16.7	16.46		ug/Kg		99	30 - 155	5	25
Hexachlorocyclohexane, delta-			16.7	17.35		ug/Kg		104	20 - 161	4	25
Dieldrin			16.7	16.24		ug/Kg		97	33 - 153	2	25
Endosulfan I			16.7	15.92		ug/Kg		95	30 - 151	1	25
Endosulfan II			16.7	16.55		ug/Kg		99	27 - 153	1	25
Endosulfan sulfate			16.7	17.33		ug/Kg		104	15 - 170	1	25
Endrin			16.7	15.76		ug/Kg		95	25 - 162	6	25
Endrin aldehyde			16.7	16.02		ug/Kg		96	49 - 117	0	25
Hexachlorocyclohexane, gamma-			16.7	17.18		ug/Kg		103	30 - 158	3	25
Heptachlor			16.7	17.49		ug/Kg		105	29 - 163	8	25
Heptachlor epoxide			16.7	15.65		ug/Kg		94	30 - 150	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*97*		*25 - 143*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-40042/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40154 **Prep Batch: 40042**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		02/02/22 17:01	02/03/22 13:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*35 - 140*	*02/02/22 17:01*	*02/03/22 13:13*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 142*	*02/02/22 17:01*	*02/03/22 13:13*	*1*

Lab Sample ID: LCS 860-40042/14-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40154 **Prep Batch: 40042**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			0.167	0.1576		mg/Kg		94	27 - 121		
Aroclor 1260			0.167	0.1512		mg/Kg		91	27 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*87*		*37 - 142*

Lab Sample ID: LCSD 860-40042/15-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40154 **Prep Batch: 40042**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.166	0.1527		mg/Kg		92	27 - 121	3	20
Aroclor 1260			0.166	0.1461		mg/Kg		88	27 - 139	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*79*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*83*		*37 - 142*

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565273/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565765 **Prep Batch: 565273**

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		02/07/22 15:28	02/11/22 02:02	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/07/22 15:28	02/11/22 02:02	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/07/22 15:28	02/11/22 02:02	1

QC Sample Results

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

Job ID: 860-19990-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: MB 280-565273/1-A
Matrix: Solid
Analysis Batch: 565765

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565273

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	106		83 - 122	02/07/22 15:28	02/11/22 02:02	1

Lab Sample ID: LCS 280-565273/2-A
Matrix: Solid
Analysis Batch: 565765

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565273

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	0.9626		mg/Kg		96	80 - 120		
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9928		mg/Kg		99	80 - 124		
2,4,6-Trinitrotoluene			1.00	1.035		mg/Kg		103	80 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	104		83 - 122

Lab Sample ID: 860-19990-1 MS
Matrix: Solid
Analysis Batch: 565765

Client Sample ID: Cell25-Square116-5-3-4-220128
Prep Type: Total/NA
Prep Batch: 565273

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	0.0227	U	0.972	0.9239		mg/Kg		95	80 - 120		
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.972	0.9142		mg/Kg		94	80 - 124		
2,4,6-Trinitrotoluene	0.0306	U	0.972	1.034		mg/Kg		106	80 - 120		

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dinitrobenzene	103		83 - 122

Lab Sample ID: 860-19990-1 MSD
Matrix: Solid
Analysis Batch: 565765

Client Sample ID: Cell25-Square116-5-3-4-220128
Prep Type: Total/NA
Prep Batch: 565273

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	0.0227	U	0.926	0.8642		mg/Kg		93	80 - 120	7	30
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.926	0.8611		mg/Kg		93	80 - 124	6	30
2,4,6-Trinitrotoluene	0.0306	U	0.926	0.9783		mg/Kg		106	80 - 120	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dinitrobenzene	103		83 - 122

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 860-19990-2 DU **Client Sample ID: Cell25-Square71-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565765 **Prep Batch: 565273**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0219	U		0.0216	U	mg/Kg				NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0415	U		0.0409	U	mg/Kg				NC	20
2,4,6-Trinitrotoluene	0.0296	U		0.0292	U	mg/Kg				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
1,2-Dinitrobenzene	*107*		*83 - 122*

Lab Sample ID: 860-19990-2 TRL **Client Sample ID: Cell25-Square71-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565765 **Prep Batch: 565273**

Analyte	Sample Result	Sample Qualifier		TRL Result	TRL Qualifier	Unit	D			RSD	RSD Limit
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0219	U		0.0213	U	mg/Kg				NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0415	U		0.0404	U	mg/Kg				NC	20
2,4,6-Trinitrotoluene	0.0296	U		0.0289	U	mg/Kg				NC	20

Surrogate	*TRL %Recovery*	*TRL Qualifier*	*Limits*
1,2-Dinitrobenzene	*105*		*83 - 122*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-39863/32-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40032 **Prep Batch: 39863**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrite as N	0.0500	U	1.00	0.0500	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrate Nitrite as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		02/01/22 20:43	02/03/22 00:14	1

Lab Sample ID: LCS 860-39863/33-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40032 **Prep Batch: 39863**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			100	100.2		mg/Kg		100	80 - 120		
Nitrate as N			100	100.1		mg/Kg		100	80 - 120		
Fluoride			100	102.1		mg/Kg		102	80 - 120		
Nitrite as N			50.0	47.27		mg/Kg		95	80 - 120		
Nitrate Nitrite as N			150	147.4		mg/Kg		98	80 - 120		
Sulfate			100	99.86		mg/Kg		100	80 - 120		

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-39863/34-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40032 **Prep Batch: 39863**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	100.9		mg/Kg		101	80 - 120	1	20
Nitrate as N			100	100.3		mg/Kg		100	80 - 120	0	20
Fluoride			100	102.5		mg/Kg		103	80 - 120	0	20
Nitrite as N			50.0	47.17		mg/Kg		94	80 - 120	0	20
Nitrate Nitrite as N			150	147.5		mg/Kg		98	80 - 120	0	20
Sulfate			100	99.95		mg/Kg		100	80 - 120	0	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 564802

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.0500	0.04711	J	ug/L		94	70 - 130		

Lab Sample ID: MB 280-565332/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565538 **Prep Batch: 565332**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/07/22 14:51	02/08/22 15:45	1

Lab Sample ID: LCS 280-565332/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565538 **Prep Batch: 565332**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.500	0.5210		ug/Kg		104	80 - 120		

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 556129

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorooctanoic acid (PFOA)			0.500	0.490	U	ug/L		94	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)			0.455	0.4417	J	ug/L		97	70 - 130		
Perfluorooctanesulfonic acid (PFOS)			0.464	0.665	U	ug/L		95	70 - 130		

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 280-565221/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566231 **Prep Batch: 565221**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/07/22 10:31	02/16/22 09:44	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/07/22 10:31	02/16/22 09:44	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/07/22 10:31	02/16/22 09:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/07/22 10:31*	*02/16/22 09:44*	*1*
13C8 PFOS	*104*		*70 - 130*	*02/07/22 10:31*	*02/16/22 09:44*	*1*

Lab Sample ID: LCS 280-565221/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566231 **Prep Batch: 565221**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	19.34		ug/Kg		97	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	17.39		ug/Kg		96	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.15		ug/Kg		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*103*		*57 - 153*
13C8 PFOS	*109*		*70 - 130*

Lab Sample ID: 860-19990-1 MS **Client Sample ID: Cell25-Square116-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566231 **Prep Batch: 565221**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.227	U	19.8	19.43		ug/Kg		98	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	0.277	U	18.0	17.11		ug/Kg		95	70 - 135
Perfluorooctanesulfonic acid (PFOS)	0.138	U	18.3	16.63		ug/Kg		91	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
13C8 PFOA	*103*		*57 - 153*
13C8 PFOS	*103*		*70 - 130*

Lab Sample ID: 860-19990-1 MSD **Client Sample ID: Cell25-Square116-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566231 **Prep Batch: 565221**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanoic acid (PFOA)	0.227	U	19.9	20.03		ug/Kg		100	70 - 131	3	30
Perfluorohexanesulfonic acid (PFHxS)	0.277	U	18.1	17.94		ug/Kg		99	70 - 135	5	30
Perfluorooctanesulfonic acid (PFOS)	0.138	U	18.5	17.23		ug/Kg		93	70 - 130	4	30

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 860-19990-1 MSD **Client Sample ID: Cell25-Square116-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566231 **Prep Batch: 565221**

Surrogate	MSD %Recovery	MSD Qualifier	Limits
13C8 PFOA	103		57 - 153
13C8 PFOS	105		70 - 130

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-40290/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40589 **Prep Batch: 40290**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/04/22 11:08	02/07/22 19:05	1

Lab Sample ID: LCS 860-40290/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40589 **Prep Batch: 40290**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	4.81	4.772		mg/Kg		99	80 - 120
Arsenic	9.62	8.596		mg/Kg		89	80 - 120
Barium	9.62	8.620		mg/Kg		90	80 - 120
Beryllium	9.62	8.517		mg/Kg		89	80 - 120
Cadmium	9.62	8.661		mg/Kg		90	80 - 120
Chromium	9.62	8.582		mg/Kg		89	80 - 120
Copper	9.62	8.540		mg/Kg		89	80 - 120
Iron	48.1	40.92		mg/Kg		85	80 - 120
Manganese	9.62	8.813		mg/Kg		92	80 - 120
Lead	9.62	8.542		mg/Kg		89	80 - 120
Antimony	9.62	9.150		mg/Kg		95	80 - 120
Selenium	9.62	8.591		mg/Kg		89	80 - 120
Thallium	9.62	8.670		mg/Kg		90	80 - 120
Uranium	2.40	2.122		mg/Kg		88	80 - 120
Zinc	9.62	8.983		mg/Kg		93	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-40290/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40589
Prep Batch: 40290

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver			5.00	4.977		mg/Kg		100	80 - 120	4	20
Arsenic			10.0	8.962		mg/Kg		90	80 - 120	4	20
Barium			10.0	9.089		mg/Kg		91	80 - 120	5	20
Beryllium			10.0	8.789		mg/Kg		88	80 - 120	3	20
Cadmium			10.0	9.036		mg/Kg		90	80 - 120	4	20
Chromium			10.0	8.782		mg/Kg		88	80 - 120	2	20
Copper			10.0	8.762		mg/Kg		88	80 - 120	3	20
Iron			50.0	41.22		mg/Kg		82	80 - 120	1	20
Manganese			10.0	8.931		mg/Kg		89	80 - 120	1	20
Lead			10.0	8.865		mg/Kg		89	80 - 120	4	20
Antimony			10.0	9.621		mg/Kg		96	80 - 120	5	20
Selenium			10.0	9.025		mg/Kg		90	80 - 120	5	20
Thallium			10.0	8.984		mg/Kg		90	80 - 120	4	20
Uranium			2.50	2.223		mg/Kg		89	80 - 120	5	20
Zinc			10.0	9.206		mg/Kg		92	80 - 120	2	20

Lab Sample ID: 860-19990-1 MS
Client Sample ID: Cell25-Square116-5-3-4-220128
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40589
Prep Batch: 40290

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.144	U	4.55	4.431		mg/Kg		97	75 - 125
Arsenic	2.96	J	9.09	11.40		mg/Kg		93	75 - 125
Barium	41.5		9.09	47.87	4	mg/Kg		70	75 - 125
Beryllium	0.551	J	9.09	8.825		mg/Kg		91	75 - 125
Cadmium	0.105	U	9.09	8.695		mg/Kg		96	75 - 125
Chromium	10.6		9.09	18.77		mg/Kg		90	75 - 125
Copper	2.90	J	9.09	11.66		mg/Kg		96	75 - 125
Iron	8950		45.5	8602	4	mg/Kg		-760	75 - 125
Manganese	55.3		9.09	61.15	4	mg/Kg		64	75 - 125
Lead	4.80		9.09	13.24		mg/Kg		93	75 - 125
Antimony	2.71		9.09	10.13		mg/Kg		82	75 - 125
Selenium	0.451	U	9.09	8.917		mg/Kg		98	75 - 125
Thallium	0.217	U	9.09	8.906		mg/Kg		98	75 - 125
Uranium	0.208	J	2.27	2.340		mg/Kg		94	75 - 125
Zinc	25.1		9.09	31.74	N1	mg/Kg		74	75 - 125

Lab Sample ID: 860-19990-1 MSD
Client Sample ID: Cell25-Square116-5-3-4-220128
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40589
Prep Batch: 40290

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.144	U	4.55	4.213		mg/Kg		93	75 - 125	5	20
Arsenic	2.96	J	9.09	11.06		mg/Kg		89	75 - 125	3	20
Barium	41.5		9.09	47.17	4	mg/Kg		63	75 - 125	1	20
Beryllium	0.551	J	9.09	8.317		mg/Kg		85	75 - 125	6	20
Cadmium	0.105	U	9.09	8.572		mg/Kg		94	75 - 125	1	20
Chromium	10.6		9.09	18.40		mg/Kg		86	75 - 125	2	20
Copper	2.90	J	9.09	11.28		mg/Kg		92	75 - 125	3	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-19990-1 MSD **Client Sample ID: Cell25-Square116-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40589 **Prep Batch: 40290**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	8950		45.5	8420	4	mg/Kg		-1160	75 - 125	2	20
Manganese	55.3		9.09	60.10	4	mg/Kg		53	75 - 125	2	20
Lead	4.80		9.09	12.88		mg/Kg		89	75 - 125	3	20
Antimony	2.71		9.09	9.703		mg/Kg		77	75 - 125	4	20
Selenium	0.451	U	9.09	8.670		mg/Kg		95	75 - 125	3	20
Thallium	0.217	U	9.09	8.632		mg/Kg		95	75 - 125	3	20
Uranium	0.208	J	2.27	2.302		mg/Kg		92	75 - 125	2	20
Zinc	25.1		9.09	31.53	N1	mg/Kg		71	75 - 125	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39690/10-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00377	U	0.0196	0.00377	mg/Kg		02/01/22 08:30	02/01/22 12:23	1

Lab Sample ID: LCS 860-39690/11-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.192	0.1814		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 860-39690/12-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.192	0.1813		mg/Kg		94	80 - 120	0	20

Lab Sample ID: 860-19990-2 MS **Client Sample ID: Cell25-Square71-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00491	J	0.185	0.1698		mg/Kg		89	75 - 125

Lab Sample ID: 860-19990-2 MSD **Client Sample ID: Cell25-Square71-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00491	J	0.185	0.1717		mg/Kg		90	75 - 125	1	20

QC Sample Results

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

Job ID: 860-19990-1

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40886/22-A
Matrix: Solid
Analysis Batch: 40920

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40886

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/09/22 15:50	02/09/22 17:14	1

Lab Sample ID: LCS 860-40886/23-A
Matrix: Solid
Analysis Batch: 40920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40886

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	102.7		ug/Kg		103	90 - 110

Lab Sample ID: LLCS 860-40886/24-A
Matrix: Solid
Analysis Batch: 40920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40886

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	50.0	52.26		ug/Kg		105	90 - 110

Method: 9045D - pH

Lab Sample ID: 860-19990-1 DU
Matrix: Solid
Analysis Batch: 41417

Client Sample ID: Cell25-Square116-5-3-4-220128
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.9	HF	8.0		SU		0.5	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193044/1
Matrix: Solid
Analysis Batch: 193044

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	10.0	U	10.0	10.0	mg/L			02/10/22 15:50	1

Lab Sample ID: LCS 560-193044/2
Matrix: Solid
Analysis Batch: 193044

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	2250	2168		mg/L		96	90 - 110

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: LCS 160-549553/2-A
Matrix: Solid
Analysis Batch: 552706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 549553

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.2	96.60		11.6		1.13	pCi/g	100	75 - 125
Cesium-137	26.0	26.44		3.22		0.201	pCi/g	102	75 - 125

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QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: LCS 160-549553/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 552706 **Prep Batch: 549553**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Cobalt-60			8.07	8.469		1.06		0.145	pCi/g	105	75 - 125		

Lab Sample ID: 860-19990-2 DU **Client Sample ID: Cell25-Square71-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 552703 **Prep Batch: 549553**

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.198	U		0.4314		0.130	1.00	0.0916	pCi/g			1.03	1
Radium-228	0.332			0.4113		0.201		0.402	pCi/g			0.19	1
Combined Radium 226 + 228	0.530			0.8427		0.239		0.402	pCi/g			0.66	1

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	5035	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	5035	

Analysis Batch: 40051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8260D SIM	39768
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8260D SIM	39768
MB 860-40051/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-40051/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-40051/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8260B	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8260B	
MB 560-192728/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192728/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192728/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	3550C	
MB 860-39525/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39525/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39525/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 39561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-39525/1-A	Method Blank	Total/NA	Solid	8270D	39525
LCS 860-39525/2-A	Lab Control Sample	Total/NA	Solid	8270D	39525
LCSD 860-39525/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	39525

Prep Batch: 39639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	3550C	
MB 860-39639/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39639/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39639/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-19990-2 MS	Cell25-Square71-5-3-4-220128	Total/NA	Solid	3550C	
860-19990-2 MSD	Cell25-Square71-5-3-4-220128	Total/NA	Solid	3550C	

Analysis Batch: 39861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8270D	39525
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8270D	39639
MB 860-39639/1-A	Method Blank	Total/NA	Solid	8270D	39639
LCS 860-39639/2-A	Lab Control Sample	Total/NA	Solid	8270D	39639
LCSD 860-39639/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	39639
860-19990-2 MS	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8270D	39639

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS Semi VOA (Continued)

Analysis Batch: 39861 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-2 MSD	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8270D	39639

Prep Batch: 566137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	3546	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	3546	
MB 400-566137/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 566465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8270D	566137
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8270D	566137
MB 400-566137/1-A	Method Blank	Total/NA	Solid	8270D	566137
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	8270D	566137

GC Semi VOA

Prep Batch: 40042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	3550C	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	3550C	
MB 860-40042/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-40042/14-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-40042/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-40042/15-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-40042/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 40085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8081B	40042
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8081B	40042
MB 860-40042/1-A	Method Blank	Total/NA	Solid	8081B	40042
LCS 860-40042/2-A	Lab Control Sample	Total/NA	Solid	8081B	40042
LCSD 860-40042/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	40042

Analysis Batch: 40117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8015B NM	40168
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8015B NM	40168
MB 860-40168/1-A	Method Blank	Total/NA	Solid	8015B NM	40168
LCS 860-40168/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40168
LCSD 860-40168/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40168
860-19990-1 MS	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8015B NM	40168
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8015B NM	40168

Analysis Batch: 40154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8082A	40042
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8082A	40042
MB 860-40042/1-A	Method Blank	Total/NA	Solid	8082A	40042

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Analysis Batch: 40154 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-40042/14-A	Lab Control Sample	Total/NA	Solid	8082A	40042
LCSD 860-40042/15-A	Lab Control Sample Dup	Total/NA	Solid	8082A	40042

Prep Batch: 40168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8015NM Prep	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8015NM Prep	
MB 860-40168/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-40168/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-40168/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
860-19990-1 MS	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8015NM Prep	
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8015NM Prep	

HPLC/IC

Prep Batch: 39863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	300_Prep	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	300_Prep	
MB 860-39863/32-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Analysis Batch: 40032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	9056A	39863
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	9056A	39863
MB 860-39863/32-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	9056A	39863
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39863

Analysis Batch: 40033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	9056A	39863
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	9056A	39863
MB 860-39863/32-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	9056A	39863
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39863

Drying Batch: 565114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	
860-19990-1 MS	Cell25-Square116-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	
860-19990-2 DU	Cell25-Square71-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	
860-19990-2 TRL	Cell25-Square71-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8330B	565114

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Prep Batch: 565273 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8330B	565114
MB 280-565273/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565273/2-A	Lab Control Sample	Total/NA	Solid	8330B	
860-19990-1 MS	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8330B	565114
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8330B	565114
860-19990-2 DU	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8330B	565114
860-19990-2 TRL	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8330B	565114

Analysis Batch: 565765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8330B	565273
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8330B	565273
MB 280-565273/1-A	Method Blank	Total/NA	Solid	8330B	565273
LCS 280-565273/2-A	Lab Control Sample	Total/NA	Solid	8330B	565273
860-19990-1 MS	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8330B	565273
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8330B	565273
860-19990-2 DU	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8330B	565273
860-19990-2 TRL	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8330B	565273

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	PFC leach	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	PFC leach	
MB 280-565221/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565221/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	
860-19990-1 MS	Cell25-Square116-5-3-4-220128	Total/NA	Solid	PFC leach	
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	Total/NA	Solid	PFC leach	

Prep Batch: 565332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	6860	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	6860	
MB 280-565332/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565332/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	6860	565332
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	6860	565332
MB 280-565332/1-A	Method Blank	Total/NA	Solid	6860	565332
LCS 280-565332/2-A	Lab Control Sample	Total/NA	Solid	6860	565332

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

LCMS

Analysis Batch: 566231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	DV-LC-0012	565221
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	DV-LC-0012	565221
MB 280-565221/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565221
LCS 280-565221/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565221
860-19990-1 MS	Cell25-Square116-5-3-4-220128	Total/NA	Solid	DV-LC-0012	565221
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	Total/NA	Solid	DV-LC-0012	565221

Metals

Prep Batch: 39690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	7471A	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	7471A	
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-19990-2 MS	Cell25-Square71-5-3-4-220128	Total/NA	Solid	7471A	
860-19990-2 MSD	Cell25-Square71-5-3-4-220128	Total/NA	Solid	7471A	

Analysis Batch: 39840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	7471A	39690
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	7471A	39690
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	39690
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	39690
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39690
860-19990-2 MS	Cell25-Square71-5-3-4-220128	Total/NA	Solid	7471A	39690
860-19990-2 MSD	Cell25-Square71-5-3-4-220128	Total/NA	Solid	7471A	39690

Prep Batch: 40290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	3051A	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	3051A	
MB 860-40290/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-40290/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-40290/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
860-19990-1 MS	Cell25-Square116-5-3-4-220128	Total/NA	Solid	3051A	
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	Total/NA	Solid	3051A	

Analysis Batch: 40589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	6020A	40290
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	6020A	40290
MB 860-40290/1-A	Method Blank	Total/NA	Solid	6020A	40290
LCS 860-40290/2-A	Lab Control Sample	Total/NA	Solid	6020A	40290
LCSD 860-40290/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	40290
860-19990-1 MS	Cell25-Square116-5-3-4-220128	Total/NA	Solid	6020A	40290
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	Total/NA	Solid	6020A	40290

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Analysis Batch: 39955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	Moisture - 2540	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	Moisture - 2540	
MB 860-39955/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Prep Batch: 40886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	9012A	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	9012A	
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	

Analysis Batch: 40920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	9012A	40886
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	9012A	40886
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	40886
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	40886
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	40886

Leach Batch: 41396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Soluble	Solid	DI Leach	
860-19990-2	Cell25-Square71-5-3-4-220128	Soluble	Solid	DI Leach	
860-19990-1 DU	Cell25-Square116-5-3-4-220128	Soluble	Solid	DI Leach	

Analysis Batch: 41417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Soluble	Solid	9045D	41396
860-19990-2	Cell25-Square71-5-3-4-220128	Soluble	Solid	9045D	41396
860-19990-1 DU	Cell25-Square116-5-3-4-220128	Soluble	Solid	9045D	41396

Prep Batch: 42223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	Distill/Phenol	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 42401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	9066	42223
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	9066	42223

Leach Batch: 193042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	7 Day Leach	Solid	335.521	
860-19990-2	Cell25-Square71-5-3-4-220128	7 Day Leach	Solid	335.521	

Analysis Batch: 193044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	7 Day Leach	Solid	SM 2540C	193042
860-19990-2	Cell25-Square71-5-3-4-220128	7 Day Leach	Solid	SM 2540C	193042

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry (Continued)

Analysis Batch: 193044 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 560-193044/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193044/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	Dry and Grind	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	Dry and Grind	
860-19990-2 DU	Cell25-Square71-5-3-4-220128	Total/NA	Solid	Dry and Grind	

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	Fill_Geo-21	549041
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	Fill_Geo-21	549041
LCS 160-549553/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
860-19990-2 DU	Cell25-Square71-5-3-4-220128	Total/NA	Solid	Fill_Geo-21	549041

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square116-5-3-4-220128 **Lab Sample ID: 860-19990-1**
Date Collected: 01/28/22 10:55 **Matrix: Solid**
Date Received: 01/29/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.4 g	5 mL	192728	02/01/22 14:34	RJD	XEN CC
Total/NA	Prep	5035			4.98 g	5 mL	39768	02/01/22 16:14	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 03:42	A1S	XEN STF
Total/NA	Prep	3550C			30.22 g	1 mL	39525	01/31/22 07:24	TH	XEN STF
Total/NA	Analysis	8270D		10	1 mL	1.0 mL	39861	02/02/22 05:26	T1S	XEN STF
Total/NA	Prep	3546			15.25 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 21:46	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10 g	10 mL	40168	02/03/22 13:11	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			40117	02/03/22 15:02	T1S	XEN STF
Total/NA	Prep	3550C			30.01 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8081B		1			40085	02/03/22 12:06	WP	XEN STF
Total/NA	Prep	3550C			30.01 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8082A		1			40154	02/03/22 13:41	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	565114	02/03/22 11:42	EKB	TAL DEN
Total/NA	Prep	8330B			10.02 g	40 mL	565273	02/07/22 15:28	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565765	02/11/22 02:48	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.05 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40032	02/03/22 01:37	WP	XEN STF
Total/NA	Prep	300_Prep			5.05 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40033	02/03/22 01:37	WP	XEN STF
Total/NA	Prep	6860			10.1 g	100 mL	565332	02/07/22 14:51	TEH	TAL DEN
Total/NA	Analysis	6860		1			565538	02/08/22 16:06	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.11 g	20 mL	565221	02/07/22 10:31	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566231	02/16/22 10:02	AGCM	TAL DEN
Total/NA	Prep	3051A			.55 g	50 mL	40290	02/04/22 11:08	PB	XEN STF
Total/NA	Analysis	6020A		10			40589	02/07/22 19:14	DCL	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:47	SHZ	XEN STF
Total/NA	Prep	9012A			0.4880 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:35	CM1	XEN STF
Soluble	Leach	DI Leach			20.05 g	20 mL	41396	02/14/22 12:06	TL	XEN STF
Soluble	Analysis	9045D		1	20.05 g	20 mL	41417	02/14/22 14:32	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:49	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			360.0000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552704	02/28/22 11:48	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square71-5-3-4-220128
Lab Sample ID: 860-19990-2
Date Collected: 01/28/22 10:40
Matrix: Solid
Date Received: 01/29/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.05 g	5 mL	192728	02/01/22 14:59	RJD	XEN CC
Total/NA	Prep	5035			5.00 g	5 mL	39768	02/01/22 16:14	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 04:04	A1S	XEN STF
Total/NA	Prep	3550C			30.12 g	1 mL	39639	01/31/22 15:04	TH	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	39861	02/01/22 22:13	T1S	XEN STF
Total/NA	Prep	3546			15.32 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 22:12	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	40168	02/03/22 13:11	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			40117	02/03/22 16:03	T1S	XEN STF
Total/NA	Prep	3550C			30.06 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8081B		1			40085	02/03/22 12:20	WP	XEN STF
Total/NA	Prep	3550C			30.06 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8082A		1			40154	02/03/22 13:51	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	565114	02/03/22 11:42	EKB	TAL DEN
Total/NA	Prep	8330B			10.36 g	40 mL	565273	02/07/22 15:28	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565765	02/11/22 03:56	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.95 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40032	02/03/22 01:49	WP	XEN STF
Total/NA	Prep	300_Prep			4.95 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40033	02/03/22 01:49	WP	XEN STF
Total/NA	Prep	6860			10.4 g	100 mL	565332	02/07/22 14:51	TEH	TAL DEN
Total/NA	Analysis	6860		1			565538	02/08/22 16:11	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.1 g	20 mL	565221	02/07/22 10:31	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566231	02/16/22 10:28	AGCM	TAL DEN
Total/NA	Prep	3051A			.57 g	50 mL	40290	02/04/22 11:08	PB	XEN STF
Total/NA	Analysis	6020A		10			40589	02/07/22 19:37	DCL	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:52	SHZ	XEN STF
Total/NA	Prep	9012A			0.4959 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:37	CM1	XEN STF
Soluble	Leach	DI Leach			20.00 g	20 mL	41396	02/14/22 12:06	TL	XEN STF
Soluble	Analysis	9045D		1	20.00 g	20 mL	41417	02/14/22 14:32	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 14:02	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			360.1000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552704	02/28/22 11:02	JCB	TAL SL

Lab Chronicle

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

Job ID: 860-19990-1

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

Laboratory: Eurofins St. Louis

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Released to Imaging: 10/28/2022 10:00:56 AM

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19990-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19990-1	Cell25-Square116-5-3-4-220128	Solid	01/28/22 10:55	01/29/22 09:40
860-19990-2	Cell25-Square71-5-3-4-220128	Solid	01/28/22 10:40	01/29/22 09:40

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Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

860-19990 Chain of Custody

Eurofins Environment Testing America

2/28/2022

Client Information	Sampler: Karen Silva	Lab PM: Kudchadkar Sachin G		203-21039.1
Client Contact: Alison Schaffer	Phone: 432-234-1114	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 of 1
Company: ARCADIS U.S. Inc.		Analysis Requested		Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			Preservation Codes:
City: Highlands Ranch	TAT Requested (days): Standard			A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)
State, Zip: CO, 80129-2377				
Phone: 303-710-7537(Tel)	PO #:			Other:
Email: Alison.Schaffer@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Temp: 1-2 IR ID:HOU-323
C/F +0.2
Corrected Temp: 1-4

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B- Volatiles	8270C- Semivolatiles/ 8081 Pesticides/ 8082 PCB	8270D_AgChem -Pensacola soil jar 4 oz	6860 Perchlorate-Ddenver- soil jar 4 oz	8330B Denver soil jar 4 oz	PFC Denver- plastic 16 oz jar	2540C_Calcd Local Method/ Moisture/ pH 9045	8015B_GRO	8015_DRO/ORO	GA-01_R_ra- Rad 226/228- St Louis- 2 plastic jars 16	9066- Phenolics/ 8012 Cyanide	300- Nitrate, Chloride, Sulfate; Fluoride	6020/7471- St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
			Preservation Code:																	
Cell 25-Square 1 1/6 S-3-4-220128	01-28-22	1055	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15
Cell 25-Square 71-S-3 4-220128	01-28-22	1040	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1/5	
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
T13				Solid																

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Karen Silva	Date: 01-28-22	Time: 1700	Method of Shipment:

Relinquished by:	Date/Time: 01-28-22/1700	Company: ARCADIS	Received by:	Date/Time: 1/29/22 9:40	Company: Xenco
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No. | Cooler Temperature(s) °C and Other Remarks:

Ver 01/16/2019

Received by OCD: 9/12/2022 9:41:21 AM
Released to Imaging: 10/28/2022 10:00:56 AM

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9862.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19990-1
Address: 13715 Rider Trail North,	Due Date Requested: 2/17/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell25-Square116-5-3-4-220128 (860-19990-1)	1/28/22	10:55 Central		Solid			X	1	
Cell25-Square71-5-3-4-220128 (860-19990-2)	1/28/22	10:40 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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	1/31/22 1900	Xenco	FED EX		
2	FED EX			[signature]	FEB 01 2022 0915	ETSTL
3				Autumn R. Johnson		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9863.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19990-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/16/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell25-Square116-5-3-4-220128 (860-19990-1)	1/28/22	10:55 Central		Solid			X	X	X	3	
Cell25-Square71-5-3-4-220128 (860-19990-2)	1/28/22	10:40 Central		Solid			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9860.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-19990-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 2/17/2022			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell25-Square116-5-3-4-220128 (860-19990-1)	1/28/22	10:55 Central		Solid			X	1	
Cell25-Square71-5-3-4-220128 (860-19990-2)	1/28/22	10:40 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 out 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 complicance 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: 1/31/22 1900	Company Xenco	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2.1.22 09:11	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 1774532	Cooler Temperature(s) °C and Other Remarks: 0.8°C IR8

Ver: 06/08/2021

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
11104 WEST AIRPORT

STAFFORD, TX 77477
UNITED STATES US

TO **PENSACOLA ENVIRON.**
TESTAMERICA - PENSACOLA
3355 MCLEMORE DRIVE

PENSACOLA FL 32514
(281) 240-4200
INV:
PO:
REF:
DEPT:

SHIP DATE: 31JAN22
ACTWGT: 10.00 LB
CAD: 110189707/INET4460

BILL SENDER

560J2/027C/FE4A

FedEx Express

TUE - 01 FEB 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7759 2137 4798

XH PNSA

32514
FL-US BFM

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping p[illegible] is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service G[illegible] on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, [illegible]isdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely[illegible]ms found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the packa[illegible], income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is[illegible]ater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extr[illegible]s $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims mus[illegible]trict time limits, see current FedEx Service Guide.

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O 47° F)

eurofins | Environment Testing TestAmerica

1774532

Custody Seal

DATE

SIGNATURE

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9861.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19990-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/16/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C/TX_7Day_T	8260B/5030B_Solid (MOD) mod	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell25-Square116-5-3-4-220128 (860-19990-1)	1/28/22	10:55 Central		Solid			X	X	1	
Cell25-Square71-5-3-4-220128 (860-19990-2)	1/28/22	10:40 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	1/31/22 1900	Xenco	Caitlyn Forrester	02/01/2022 1110	Ex
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.1 Cc IR-13 0.8

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9874.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19990-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/16/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C/TX_7Day_T	8260B/5030B_Solid (MOD) mod	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell25-Square116-5-3-4-220128 (860-19990-1)	1/28/22	10:55 Central		Solid			X	X	1	
Cell25-Square71-5-3-4-220128 (860-19990-2)	1/28/22	10:40 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
[signature]	1/28/22 1900	Xenco	[signature]	1-28-22 12:23	EX
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: 3.7/3.6 CG IR-10

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19990-1

Login Number: 19990 **List Source: Eurofins Houston**
List Number: 1
Creator: Torres, Sandra

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	1.4
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: 860-19990-1

Login Number: 19990 **List Source: Eurofins Corpus Christi**
List Number: 2 **List Creation: 02/01/22 12:01 PM**
Creator: Forrester, Caitlyn D

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.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19990-1

Login Number: 19990 **List Source: Eurofins Denver**
List Number: 4 **List Creation: 02/01/22 12:53 PM**
Creator: Rystrom, Joshua R

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	
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").	True	
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: 860-19990-1

Login Number: 19990 **List Source: Eurofins Pensacola**
List Number: 3 **List Creation: 02/01/22 01:46 PM**
Creator: Roberts, Alexis J

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	0.8°C IR9
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: 860-19990-1

Login Number: 19990 **List Source: Eurofins St. Louis**
List Number: 5 **List Creation: 02/01/22 04:03 PM**
Creator: Johnson, Autumn R

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	
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.	N/A	

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ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19993-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer



Authorized for release by:
2/28/2022 7:58:23 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

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

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

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

Laboratory Job ID: 860-19993-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Analyte was not detected at or above the SDL.

GC/MS Semi 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/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
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.

LCMS

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.

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

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19993-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19993-1

Receipt
The samples were received on 1/29/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

GC/MS VOA
Method 8260B: The following analyte recovered outside control limits for the LCS associated with analytical batch 560-192728: Tetrachloroethene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been 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 following samples were diluted due to the nature of the sample matrix: Cell21-Square58-5-3-4-220128 (860-19993-1) and Cell21-Square88-5-3-4-220128 (860-19993-2). Elevated reporting limits (RLs) are provided.

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

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

PCBs
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 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell21-Square58-5-3-4-220128 (860-19993-1) and Cell21-Square88-5-3-4-220128 (860-19993-2) in preparation batch 280-565114 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell21-Square58-5-3-4-220128 (860-19993-1) and Cell21-Square88-5-3-4-220128 (860-19993-2). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-565114 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell21-Square58-5-3-4-220128 (860-19993-1) and Cell21-Square88-5-3-4-220128 (860-19993-2) in preparation batch 280-565114 and 280-565273 by 8330B_Sonc_10g for 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.

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19993-1 (Continued)

Laboratory: Eurofins Houston (Continued)

Metals

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.

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-549566Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 AnalyteTh-234 Pa-234Th-234 U-238Pb-210 Po-210 Pb-210 Bi-210Cs-137 Ba-137mPb-212 Po-216Xe-131m Xe-131Sb-125 Te-125mAg-108m Ag-108Rh-106 Ru-106Pb-212 Th-228Pb-212 Ra-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. Cell21-Square58-5-3-4-220128 (860-19993-1), Cell21-Square88-5-3-4-220128 (860-19993-2), (LCS 160-549566/2-A), (MB 160-549566/1-A), (860-19995-D-2-B) and (860-19995-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square58-5-3-4-220128 Lab Sample ID: 860-19993-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	11.7		1.01	0.109	mg/Kg	1		9056A	Total/NA
Fluoride	4.36	J	5.03	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.492	J	1.01	0.0503	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	12.2		1.01	0.109	mg/Kg	1		9056A	Total/NA
Sulfate	150		10.1	4.35	mg/Kg	1		9056A	Total/NA
Arsenic	2.88	J	3.33	0.514	mg/Kg	10		6020A	Total/NA
Barium	273		3.33	0.289	mg/Kg	10		6020A	Total/NA
Beryllium	0.178	J	1.67	0.154	mg/Kg	10		6020A	Total/NA
Chromium	2.67	J	3.33	0.226	mg/Kg	10		6020A	Total/NA
Copper	1.49	J	3.33	0.217	mg/Kg	10		6020A	Total/NA
Iron	2390		16.7	1.95	mg/Kg	10		6020A	Total/NA
Manganese	25.0		1.67	0.212	mg/Kg	10		6020A	Total/NA
Lead	1.64	J	1.67	0.161	mg/Kg	10		6020A	Total/NA
Antimony	0.182	J	1.67	0.0992	mg/Kg	10		6020A	Total/NA
Uranium	0.398	J	0.833	0.0498	mg/Kg	10		6020A	Total/NA
Zinc	8.00		3.33	0.369	mg/Kg	10		6020A	Total/NA
Mercury	0.0121	J	0.0200	0.00384	mg/Kg	1		7471A	Total/NA
pH	8.6	HF			SU	1		9045D	Soluble
Total Dissolved Solids	118		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell21-Square88-5-3-4-220128 Lab Sample ID: 860-19993-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	5.71		0.996	0.108	mg/Kg	1		9056A	Total/NA
Fluoride	6.20		4.98	0.996	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.519	J	0.996	0.0498	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	6.23		0.996	0.108	mg/Kg	1		9056A	Total/NA
Sulfate	60.8		9.96	4.30	mg/Kg	1		9056A	Total/NA
Arsenic	2.85	J	3.77	0.582	mg/Kg	10		6020A	Total/NA
Barium	143		3.77	0.327	mg/Kg	10		6020A	Total/NA
Chromium	2.20	J	3.77	0.256	mg/Kg	10		6020A	Total/NA
Copper	1.23	J	3.77	0.246	mg/Kg	10		6020A	Total/NA
Iron	1530		18.9	2.21	mg/Kg	10		6020A	Total/NA
Manganese	21.6		1.89	0.240	mg/Kg	10		6020A	Total/NA
Lead	1.04	J	1.89	0.183	mg/Kg	10		6020A	Total/NA
Antimony	0.158	J	1.89	0.112	mg/Kg	10		6020A	Total/NA
Uranium	0.354	J	0.943	0.0564	mg/Kg	10		6020A	Total/NA
Zinc	6.82		3.77	0.418	mg/Kg	10		6020A	Total/NA
Mercury	0.0106	J	0.0196	0.00377	mg/Kg	1		7471A	Total/NA
pH	8.9	HF			SU	1		9045D	Soluble
Total Dissolved Solids	114		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square58-5-3-4-220128 **Lab Sample ID: 860-19993-1**
Date Collected: 01/28/22 08:30 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.712	U	4.87	0.712	ug/Kg			02/01/22 15:25	1
Chloromethane	1.17	U	4.87	1.17	ug/Kg			02/01/22 15:25	1
Vinyl chloride	0.585	U	4.87	0.585	ug/Kg			02/01/22 15:25	1
Bromomethane	1.07	U	4.87	1.07	ug/Kg			02/01/22 15:25	1
Trichlorofluoromethane	0.487	U	4.87	0.487	ug/Kg			02/01/22 15:25	1
Acrolein	8.38	U	48.7	8.38	ug/Kg			02/01/22 15:25	1
1,1-Dichloroethene	0.487	U	4.87	0.487	ug/Kg			02/01/22 15:25	1
trans-1,2-Dichloroethene	0.487	U	4.87	0.487	ug/Kg			02/01/22 15:25	1
Methyl tert-butyl ether	0.595	U	4.87	0.595	ug/Kg			02/01/22 15:25	1
1,3-Dichlorobenzene	0.302	U	4.87	0.302	ug/Kg			02/01/22 15:25	1
Methylene Chloride	4.87	U	24.4	4.87	ug/Kg			02/01/22 15:25	1
Acrylonitrile	3.51	U	48.7	3.51	ug/Kg			02/01/22 15:25	1
cis-1,2-Dichloroethene	0.556	U	4.87	0.556	ug/Kg			02/01/22 15:25	1
Carbon tetrachloride	0.497	U	4.87	0.497	ug/Kg			02/01/22 15:25	1
Benzene	0.614	U	4.87	0.614	ug/Kg			02/01/22 15:25	1
1,2-Dichloroethane	0.507	U	4.87	0.507	ug/Kg			02/01/22 15:25	1
Trichloroethene	0.273	U	4.87	0.273	ug/Kg			02/01/22 15:25	1
1,1,1-Trichloroethane	0.487	U	4.87	0.487	ug/Kg			02/01/22 15:25	1
1,1-Dichloroethane	0.575	U	4.87	0.575	ug/Kg			02/01/22 15:25	1
1,2-Dichloropropane	0.487	U	4.87	0.487	ug/Kg			02/01/22 15:25	1
1,4-Dioxane	18.5	U	97.5	18.5	ug/Kg			02/01/22 15:25	1
Chloroform	0.848	U	4.87	0.848	ug/Kg			02/01/22 15:25	1
Bromodichloromethane	0.195	U	4.87	0.195	ug/Kg			02/01/22 15:25	1
1,1-Dichloropropene	0.507	U	4.87	0.507	ug/Kg			02/01/22 15:25	1
cis-1,3-Dichloropropene	0.439	U	4.87	0.439	ug/Kg			02/01/22 15:25	1
Toluene	0.877	U	4.87	0.877	ug/Kg			02/01/22 15:25	1
trans-1,3-Dichloropropene	0.507	U	4.87	0.507	ug/Kg			02/01/22 15:25	1
1,1,2-Trichloroethane	0.487	U	4.87	0.487	ug/Kg			02/01/22 15:25	1
Tetrachloroethene	0.721	U *	4.87	0.721	ug/Kg			02/01/22 15:25	1
1,3-Dichloropropene, Total	0.507	U	4.87	0.507	ug/Kg			02/01/22 15:25	1
1,2-Dibromoethane	0.292	U	4.87	0.292	ug/Kg			02/01/22 15:25	1
Monochlorobenzene	0.292	U	4.87	0.292	ug/Kg			02/01/22 15:25	1
Ethylbenzene	0.439	U	4.87	0.439	ug/Kg			02/01/22 15:25	1
Xylenes, Total	0.487	U	9.75	0.487	ug/Kg			02/01/22 15:25	1
Styrene	0.292	U	4.87	0.292	ug/Kg			02/01/22 15:25	1
Tribromomethane	0.497	U	4.87	0.497	ug/Kg			02/01/22 15:25	1
1,1,2,2-Tetrachloroethane	0.370	U	4.87	0.370	ug/Kg			02/01/22 15:25	1
1,4-Dichlorobenzene	0.312	U	4.87	0.312	ug/Kg			02/01/22 15:25	1
1,2-Dichlorobenzene	0.244	U	4.87	0.244	ug/Kg			02/01/22 15:25	1
1,2,4-Trichlorobenzene	0.945	U	4.87	0.945	ug/Kg			02/01/22 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*50 - 136*		*02/01/22 15:25*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*02/01/22 15:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 152*		*02/01/22 15:25*	*1*
Toluene-d8 (Surr)	*93*		*65 - 139*		*02/01/22 15:25*	*1*

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00252	U	0.00503	0.00252	mg/Kg		02/01/22 16:14	02/03/22 04:26	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square58-5-3-4-220128
Lab Sample ID: 860-19993-1
Date Collected: 01/28/22 08:30
Matrix: Solid
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*63 - 144*	*02/01/22 16:14*	*02/03/22 04:26*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.7	U	64.2	11.7	ug/Kg		02/10/22 13:33	02/14/22 22:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*88*		*30 - 164*	*02/10/22 13:33*	*02/14/22 22:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	170	U	1640	170	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
1,2,4,5-Tetrachlorobenzene	162	U	1640	162	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
1-Methylnaphthalene	262	U	1640	262	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
bis (2-chloroisopropyl) ether	174	U	1640	174	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
2,4,5-Trichlorophenol	187	U	1640	187	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
2,4,6-Trichlorophenol	155	U	1640	155	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
2,4-Dinitrotoluene	125	U	1640	125	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Dinitrophenols	237	U	3270	237	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
2,4-Dichlorophenol	171	U	1640	171	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
2,6-Dinitrotoluene	228	U	1640	228	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Dichlorobenzidine, 3,3'-	151	U	3270	151	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
4,6-Dinitro-2-methylphenol	125	U	3270	125	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Acenaphthene	152	U	1640	152	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Anthracene	136	U	1640	136	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Acenaphthylene	145	U	1640	145	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Benzo[a]anthracene	138	U	1640	138	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Benzo[b]fluoranthene	123	U	1640	123	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Benzo[k]fluoranthene	190	U	1640	190	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Benzo[g,h,i]perylene	151	U	1640	151	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Benzo[a]pyrene	169	U	1640	169	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Di (2-ethylhexyl)phthalate	1640	U	3270	1640	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Bis(2-chloroethyl)ether	149	U	1640	149	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Chrysene	162	U	1640	162	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Dibutylphthalate	157	U	1640	157	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Dibenz(a,h)anthracene	124	U	1640	124	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Diethyl phthalate	150	U	1640	150	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Dimethyl phthalate	156	U	1640	156	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Fluoranthene	144	U	1640	144	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Fluorene	136	U	1640	136	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Hexachlorobenzene	159	U	1640	159	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Hexachlorobutadiene	136	U	1640	136	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Hexachlorocyclopentadiene	149	U	1640	149	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Hexachloroethane	170	U	1640	170	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Indeno[1,2,3-cd]pyrene	132	U	1640	132	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Isophorone	142	U	1640	142	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
N-Nitrosodi-n-butylamine	248	U	1640	248	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
N-Nitrosodiethylamine	215	U	1640	215	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
N-Nitrosodiphenylamine	183	U	1640	183	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
N-Nitrosopyrrolidine	138	U	1640	138	ug/Kg		01/31/22 15:04	02/02/22 01:25	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square58-5-3-4-220128 **Lab Sample ID: 860-19993-1**
Date Collected: 01/28/22 08:30 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	156	U	1640	156	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Pentachlorophenol	119	U	3270	119	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Phenanthrene	163	U	1640	163	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Pyrene	143	U	1640	143	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Naphthalene	153	U	1640	153	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
2-Methylnaphthalene	443	U	1640	443	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Nitrobenzene	181	U	1640	181	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Benzidine	119	U	3270	119	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Phenol	0.147	U	3.27	0.147	mg/Kg		01/31/22 15:04	02/02/22 01:25	10
N-Nitrosodimethylamine	164	U	1640	164	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Atrazine	162	U	3270	162	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Thiophene, tetrahydro-, 1,1-dioxide	3270	U	3270	3270	ug/Kg		01/31/22 15:04	02/02/22 01:25	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*6.54*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 15:04*	*02/02/22 01:25*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*30 - 115*	*01/31/22 15:04*	*02/02/22 01:25*	*10*
2-Fluorophenol	*76*		*25 - 121*	*01/31/22 15:04*	*02/02/22 01:25*	*10*
2,4,6-Tribromophenol	*67*		*19 - 122*	*01/31/22 15:04*	*02/02/22 01:25*	*10*
Nitrobenzene-d5	*69*		*23 - 129*	*01/31/22 15:04*	*02/02/22 01:25*	*10*
Phenol-d5 (Surr)	*71*		*24 - 113*	*01/31/22 15:04*	*02/02/22 01:25*	*10*
p-Terphenyl-d14 (Surr)	*90*		*18 - 137*	*01/31/22 15:04*	*02/02/22 01:25*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 16:23	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 16:23	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*65 - 130*	*02/03/22 13:11*	*02/03/22 16:23*	*1*
o-Terphenyl (Surr)	*83*		*65 - 130*	*02/03/22 13:11*	*02/03/22 16:23*	*1*

Method: 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		02/02/22 17:01	02/03/22 12:34	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Endrin	0.291	U	0.833	0.291	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		02/02/22 17:01	02/03/22 12:34	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square58-5-3-4-220128 **Lab Sample ID: 860-19993-1**
Date Collected: 01/28/22 08:30 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.562	U	0.833	0.562	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		02/02/22 17:01	02/03/22 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*35 - 135*	*02/02/22 17:01*	*02/03/22 12:34*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*25 - 143*	*02/02/22 17:01*	*02/03/22 12:34*	*1*

Method: 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		02/02/22 17:01	02/03/22 14:00	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 14:00	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 14:00	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 14:00	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 14:00	1
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		02/02/22 17:01	02/03/22 14:00	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		02/02/22 17:01	02/03/22 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*35 - 140*	*02/02/22 17:01*	*02/03/22 14:00*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*37 - 142*	*02/02/22 17:01*	*02/03/22 14:00*	*1*

Method: 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	0.0222	U	0.0978	0.0222	mg/Kg		02/07/22 15:28	02/11/22 05:05	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0420	U	0.196	0.0420	mg/Kg		02/07/22 15:28	02/11/22 05:05	1
2,4,6-Trinitrotoluene	0.0300	U	0.0978	0.0300	mg/Kg		02/07/22 15:28	02/11/22 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*109*		*83 - 122*	*02/07/22 15:28*	*02/11/22 05:05*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.56	U	10.1	3.56	mg/Kg		02/01/22 20:44	02/03/22 02:01	1
Nitrate as N	**11.7**		1.01	0.109	mg/Kg		02/01/22 20:44	02/03/22 02:01	1
Fluoride	**4.36**	**J**	5.03	1.01	mg/Kg		02/01/22 20:44	02/03/22 02:01	1
Nitrite as N	**0.492**	**J**	1.01	0.0503	mg/Kg		02/01/22 20:44	02/03/22 02:01	1
Nitrate Nitrite as N	**12.2**		1.01	0.109	mg/Kg		02/01/22 20:44	02/03/22 02:01	1
Sulfate	**150**		10.1	4.35	mg/Kg		02/01/22 20:44	02/03/22 02:01	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0805	U	0.488	0.0805	ug/Kg		02/07/22 14:51	02/08/22 16:16	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.219	U	0.762	0.219	ug/Kg		02/07/22 10:31	02/16/22 10:37	1
Perfluorohexanesulfonic acid (PFHxS)	0.267	U	0.762	0.267	ug/Kg		02/07/22 10:31	02/16/22 10:37	1
Perfluorooctanesulfonic acid (PFOS)	0.133	U	0.762	0.133	ug/Kg		02/07/22 10:31	02/16/22 10:37	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square58-5-3-4-220128 **Lab Sample ID: 860-19993-1**
Date Collected: 01/28/22 08:30 **Matrix: Solid**
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	02/07/22 10:31	02/16/22 10:37	1
13C8 PFOS	105		70 - 130	02/07/22 10:31	02/16/22 10:37	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.132	U	1.67	0.132	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Arsenic	**2.88**	**J**	3.33	0.514	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Barium	**273**		3.33	0.289	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Beryllium	**0.178**	**J**	1.67	0.154	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Cadmium	0.0967	U	1.67	0.0967	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Chromium	**2.67**	**J**	3.33	0.226	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Copper	**1.49**	**J**	3.33	0.217	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Iron	**2390**		16.7	1.95	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Manganese	**25.0**		1.67	0.212	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Lead	**1.64**	**J**	1.67	0.161	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Antimony	**0.182**	**J**	1.67	0.0992	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Selenium	0.413	U	1.67	0.413	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Thallium	0.199	U	1.67	0.199	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Uranium	**0.398**	**J**	0.833	0.0498	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Zinc	**8.00**		3.33	0.369	mg/Kg		02/04/22 11:08	02/07/22 19:40	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0121**	**J**	0.0200	0.00384	mg/Kg		02/02/22 09:00	02/02/22 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.7	U	59.9	29.7	ug/Kg		02/09/22 15:50	02/09/22 17:38	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 14:05	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**	**HF**			SU			02/14/22 14:32	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**118**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	**1.55**		0.234	0.298	1.00	0.113	pCi/g	02/07/22 11:13	02/28/22 07:38	1
Radium-228	**0.319**		0.193	0.197		0.224	pCi/g	02/07/22 11:13	02/28/22 07:38	1
Combined Radium 226 + 228	**1.87**		0.303	0.357		0.224	pCi/g	02/07/22 11:13	02/28/22 07:38	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square88-5-3-4-220128 **Lab Sample ID: 860-19993-2**
Date Collected: 01/28/22 09:10 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.716	U	4.90	0.716	ug/Kg			02/01/22 15:50	1
Chloromethane	1.18	U	4.90	1.18	ug/Kg			02/01/22 15:50	1
Vinyl chloride	0.588	U	4.90	0.588	ug/Kg			02/01/22 15:50	1
Bromomethane	1.08	U	4.90	1.08	ug/Kg			02/01/22 15:50	1
Trichlorofluoromethane	0.490	U	4.90	0.490	ug/Kg			02/01/22 15:50	1
Acrolein	8.43	U	49.0	8.43	ug/Kg			02/01/22 15:50	1
1,1-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			02/01/22 15:50	1
trans-1,2-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			02/01/22 15:50	1
Methyl tert-butyl ether	0.598	U	4.90	0.598	ug/Kg			02/01/22 15:50	1
1,3-Dichlorobenzene	0.304	U	4.90	0.304	ug/Kg			02/01/22 15:50	1
Methylene Chloride	4.90	U	24.5	4.90	ug/Kg			02/01/22 15:50	1
Acrylonitrile	3.53	U	49.0	3.53	ug/Kg			02/01/22 15:50	1
cis-1,2-Dichloroethene	0.559	U	4.90	0.559	ug/Kg			02/01/22 15:50	1
Carbon tetrachloride	0.500	U	4.90	0.500	ug/Kg			02/01/22 15:50	1
Benzene	0.618	U	4.90	0.618	ug/Kg			02/01/22 15:50	1
1,2-Dichloroethane	0.510	U	4.90	0.510	ug/Kg			02/01/22 15:50	1
Trichloroethene	0.275	U	4.90	0.275	ug/Kg			02/01/22 15:50	1
1,1,1-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			02/01/22 15:50	1
1,1-Dichloroethane	0.578	U	4.90	0.578	ug/Kg			02/01/22 15:50	1
1,2-Dichloropropane	0.490	U	4.90	0.490	ug/Kg			02/01/22 15:50	1
1,4-Dioxane	18.6	U	98.0	18.6	ug/Kg			02/01/22 15:50	1
Chloroform	0.853	U	4.90	0.853	ug/Kg			02/01/22 15:50	1
Bromodichloromethane	0.196	U	4.90	0.196	ug/Kg			02/01/22 15:50	1
1,1-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			02/01/22 15:50	1
cis-1,3-Dichloropropene	0.441	U	4.90	0.441	ug/Kg			02/01/22 15:50	1
Toluene	0.882	U	4.90	0.882	ug/Kg			02/01/22 15:50	1
trans-1,3-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			02/01/22 15:50	1
1,1,2-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			02/01/22 15:50	1
Tetrachloroethene	0.725	U *	4.90	0.725	ug/Kg			02/01/22 15:50	1
1,3-Dichloropropene, Total	0.510	U	4.90	0.510	ug/Kg			02/01/22 15:50	1
1,2-Dibromoethane	0.294	U	4.90	0.294	ug/Kg			02/01/22 15:50	1
Monochlorobenzene	0.294	U	4.90	0.294	ug/Kg			02/01/22 15:50	1
Ethylbenzene	0.441	U	4.90	0.441	ug/Kg			02/01/22 15:50	1
Xylenes, Total	0.490	U	9.80	0.490	ug/Kg			02/01/22 15:50	1
Styrene	0.294	U	4.90	0.294	ug/Kg			02/01/22 15:50	1
Tribromomethane	0.500	U	4.90	0.500	ug/Kg			02/01/22 15:50	1
1,1,2,2-Tetrachloroethane	0.373	U	4.90	0.373	ug/Kg			02/01/22 15:50	1
1,4-Dichlorobenzene	0.314	U	4.90	0.314	ug/Kg			02/01/22 15:50	1
1,2-Dichlorobenzene	0.245	U	4.90	0.245	ug/Kg			02/01/22 15:50	1
1,2,4-Trichlorobenzene	0.951	U	4.90	0.951	ug/Kg			02/01/22 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*50 - 136*		*02/01/22 15:50*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*02/01/22 15:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 152*		*02/01/22 15:50*	*1*
Toluene-d8 (Surr)	*93*		*65 - 139*		*02/01/22 15:50*	*1*

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00253	U	0.00505	0.00253	mg/Kg		02/01/22 16:14	02/03/22 04:48	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square88-5-3-4-220128
Lab Sample ID: 860-19993-2
Date Collected: 01/28/22 09:10
Matrix: Solid
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*110*		*63 - 144*	*02/01/22 16:14*	*02/03/22 04:48*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.8	U	65.0	11.8	ug/Kg		02/10/22 13:33	02/14/22 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*82*		*30 - 164*	*02/10/22 13:33*	*02/14/22 23:04*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	172	U	1650	172	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
1,2,4,5-Tetrachlorobenzene	163	U	1650	163	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
1-Methylnaphthalene	265	U	1650	265	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
bis (2-chloroisopropyl) ether	176	U	1650	176	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
2,4,5-Trichlorophenol	189	U	1650	189	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
2,4,6-Trichlorophenol	156	U	1650	156	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
2,4-Dinitrotoluene	126	U	1650	126	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Dinitrophenols	240	U	3300	240	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
2,4-Dichlorophenol	173	U	1650	173	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
2,6-Dinitrotoluene	231	U	1650	231	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Dichlorobenzidine, 3,3'-	153	U	3300	153	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
4,6-Dinitro-2-methylphenol	126	U	3300	126	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Acenaphthene	154	U	1650	154	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Anthracene	137	U	1650	137	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Acenaphthylene	146	U	1650	146	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Benzo[a]anthracene	139	U	1650	139	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Benzo[b]fluoranthene	125	U	1650	125	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Benzo[k]fluoranthene	192	U	1650	192	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Benzo[g,h,i]perylene	152	U	1650	152	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Benzo[a]pyrene	171	U	1650	171	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Di (2-ethylhexyl)phthalate	1650	U	3300	1650	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Bis(2-chloroethyl)ether	151	U	1650	151	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Chrysene	164	U	1650	164	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Dibutylphthalate	159	U	1650	159	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Dibenz(a,h)anthracene	126	U	1650	126	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Diethyl phthalate	152	U	1650	152	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Dimethyl phthalate	157	U	1650	157	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Fluoranthene	146	U	1650	146	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Fluorene	137	U	1650	137	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Hexachlorobenzene	161	U	1650	161	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Hexachlorobutadiene	137	U	1650	137	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Hexachlorocyclopentadiene	151	U	1650	151	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Hexachloroethane	171	U	1650	171	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Indeno[1,2,3-cd]pyrene	133	U	1650	133	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Isophorone	144	U	1650	144	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
N-Nitrosodi-n-butylamine	250	U	1650	250	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
N-Nitrosodiethylamine	217	U	1650	217	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
N-Nitrosodiphenylamine	185	U	1650	185	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
N-Nitrosopyrrolidine	140	U	1650	140	ug/Kg		01/31/22 15:04	02/02/22 01:49	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square88-5-3-4-220128 **Lab Sample ID: 860-19993-2**
Date Collected: 01/28/22 09:10 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	158	U	1650	158	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Pentachlorophenol	120	U	3300	120	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Phenanthrene	164	U	1650	164	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Pyrene	145	U	1650	145	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Naphthalene	155	U	1650	155	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
2-Methylnaphthalene	448	U	1650	448	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Nitrobenzene	183	U	1650	183	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Benzidine	120	U	3300	120	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Phenol	0.148	U	3.30	0.148	mg/Kg		01/31/22 15:04	02/02/22 01:49	10
N-Nitrosodimethylamine	166	U	1650	166	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Atrazine	164	U	3300	164	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Thiophene, tetrahydro-, 1,1-dioxide	3300	U	3300	3300	ug/Kg		01/31/22 15:04	02/02/22 01:49	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*6.61*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 15:04*	*02/02/22 01:49*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*50*		*30 - 115*	*01/31/22 15:04*	*02/02/22 01:49*	*10*
2-Fluorophenol	*43*		*25 - 121*	*01/31/22 15:04*	*02/02/22 01:49*	*10*
2,4,6-Tribromophenol	*44*		*19 - 122*	*01/31/22 15:04*	*02/02/22 01:49*	*10*
Nitrobenzene-d5	*39*		*23 - 129*	*01/31/22 15:04*	*02/02/22 01:49*	*10*
Phenol-d5 (Surr)	*41*		*24 - 113*	*01/31/22 15:04*	*02/02/22 01:49*	*10*
p-Terphenyl-d14 (Surr)	*51*		*18 - 137*	*01/31/22 15:04*	*02/02/22 01:49*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 16:43	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 16:43	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*65 - 130*	*02/03/22 13:11*	*02/03/22 16:43*	*1*
o-Terphenyl (Surr)	*79*		*65 - 130*	*02/03/22 13:11*	*02/03/22 16:43*	*1*

Method: 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		02/02/22 17:01	02/03/22 12:48	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Endrin	0.290	U	0.832	0.290	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		02/02/22 17:01	02/03/22 12:48	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square88-5-3-4-220128 **Lab Sample ID: 860-19993-2**
Date Collected: 01/28/22 09:10 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Heptachlor epoxide	0.245	U	0.832	0.245	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		02/02/22 17:01	02/03/22 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*35 - 135*	*02/02/22 17:01*	*02/03/22 12:48*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*25 - 143*	*02/02/22 17:01*	*02/03/22 12:48*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0166	0.00395	mg/Kg		02/02/22 17:01	02/03/22 14:10	1
Aroclor 1221	0.00395	U	0.0166	0.00395	mg/Kg		02/02/22 17:01	02/03/22 14:10	1
Aroclor 1232	0.00395	U	0.0166	0.00395	mg/Kg		02/02/22 17:01	02/03/22 14:10	1
Aroclor 1242	0.00395	U	0.0166	0.00395	mg/Kg		02/02/22 17:01	02/03/22 14:10	1
Aroclor 1248	0.00395	U	0.0166	0.00395	mg/Kg		02/02/22 17:01	02/03/22 14:10	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		02/02/22 17:01	02/03/22 14:10	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		02/02/22 17:01	02/03/22 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*35 - 140*	*02/02/22 17:01*	*02/03/22 14:10*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*37 - 142*	*02/02/22 17:01*	*02/03/22 14:10*	*1*

Method: 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	0.0925	0.0210	mg/Kg		02/07/22 15:28	02/11/22 05:28	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0398	U	0.185	0.0398	mg/Kg		02/07/22 15:28	02/11/22 05:28	1
2,4,6-Trinitrotoluene	0.0284	U	0.0925	0.0284	mg/Kg		02/07/22 15:28	02/11/22 05:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*02/07/22 15:28*	*02/11/22 05:28*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.53	U	9.96	3.53	mg/Kg		02/01/22 20:44	02/03/22 02:37	1
Nitrate as N	**5.71**		0.996	0.108	mg/Kg		02/01/22 20:44	02/03/22 02:37	1
Fluoride	**6.20**		4.98	0.996	mg/Kg		02/01/22 20:44	02/03/22 02:37	1
Nitrite as N	**0.519**	**J**	0.996	0.0498	mg/Kg		02/01/22 20:44	02/03/22 02:37	1
Nitrate Nitrite as N	**6.23**		0.996	0.108	mg/Kg		02/01/22 20:44	02/03/22 02:37	1
Sulfate	**60.8**		9.96	4.30	mg/Kg		02/01/22 20:44	02/03/22 02:37	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0763	U	0.463	0.0763	ug/Kg		02/07/22 14:51	02/08/22 16:21	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.217	U	0.753	0.217	ug/Kg		02/07/22 10:31	02/16/22 10:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.264	U	0.753	0.264	ug/Kg		02/07/22 10:31	02/16/22 10:46	1
Perfluorooctanesulfonic acid (PFOS)	0.132	U	0.753	0.132	ug/Kg		02/07/22 10:31	02/16/22 10:46	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square88-5-3-4-220128 **Lab Sample ID: 860-19993-2**
Date Collected: 01/28/22 09:10 **Matrix: Solid**
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	02/07/22 10:31	02/16/22 10:46	1
13C8 PFOS	109		70 - 130	02/07/22 10:31	02/16/22 10:46	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.150	U	1.89	0.150	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Arsenic	**2.85**	**J**	3.77	0.582	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Barium	**143**		3.77	0.327	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Beryllium	0.175	U	1.89	0.175	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Cadmium	0.109	U	1.89	0.109	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Chromium	**2.20**	**J**	3.77	0.256	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Copper	**1.23**	**J**	3.77	0.246	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Iron	**1530**		18.9	2.21	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Manganese	**21.6**		1.89	0.240	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Lead	**1.04**	**J**	1.89	0.183	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Antimony	**0.158**	**J**	1.89	0.112	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Selenium	0.468	U	1.89	0.468	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Thallium	0.225	U	1.89	0.225	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Uranium	**0.354**	**J**	0.943	0.0564	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Zinc	**6.82**		3.77	0.418	mg/Kg		02/04/22 11:08	02/07/22 19:43	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0106**	**J**	0.0196	0.00377	mg/Kg		02/02/22 09:00	02/02/22 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.9	U	60.3	29.9	ug/Kg		02/09/22 15:50	02/09/22 17:39	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 14:07	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.9**	**HF**			SU			02/14/22 14:32	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**114**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	**0.975**		0.204	0.234	1.00	0.161	pCi/g	02/07/22 11:13	02/28/22 07:39	1
Radium-228	-0.467	U	0.353	0.357		0.609	pCi/g	02/07/22 11:13	02/28/22 07:39	1
Combined Radium 226 + 228	0.507	U	0.408	0.427		0.609	pCi/g	02/07/22 11:13	02/28/22 07:39	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DBFM	BFB	DCA	TOL
Lab Sample ID	Client Sample ID	(50-136)	(61-142)	(65-152)	(65-139)
860-19993-1	Cell21-Square58-5-3-4-220128	96	111	100	93
860-19993-2	Cell21-Square88-5-3-4-220128	99	111	103	93
LCS 560-192728/3	Lab Control Sample	97	117	94	96
LCSD 560-192728/4	Lab Control Sample Dup	98	116	96	95
MB 560-192728/7	Method Blank	97	109	99	93

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCA
Lab Sample ID	Client Sample ID	(63-144)
860-19993-1	Cell21-Square58-5-3-4-220128	105
860-19993-2	Cell21-Square88-5-3-4-220128	110
LCS 860-40051/11	Lab Control Sample	101
LCSD 860-40051/12	Lab Control Sample Dup	102
MB 860-40051/16	Method Blank	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19993-1	Cell21-Square58-5-3-4-220128	88
860-19993-2	Cell21-Square88-5-3-4-220128	82
LCS 400-566137/2-A	Lab Control Sample	98
MB 400-566137/1-A	Method Blank	95

Surrogate Legend

TPP = Triphenylphosphate

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(30-115)	(25-121)	(19-122)	(23-129)	(24-113)	(18-137)
860-19993-1	Cell21-Square58-5-3-4-220128	84	76	67	69	71	90
860-19993-2	Cell21-Square88-5-3-4-220128	50	43	44	39	41	51
LCS 860-39639/2-A	Lab Control Sample	75	79	85	77	80	82
LCSD 860-39639/3-A	Lab Control Sample Dup	82	87	89	84	86	85
MB 860-39639/1-A	Method Blank	88	93	85	86	89	98

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(65-130)	(65-130)
860-19993-1	Cell21-Square58-5-3-4-220128	95	83
860-19993-2	Cell21-Square88-5-3-4-220128	91	79
LCS 860-40168/2-A	Lab Control Sample	90	83
LCSD 860-40168/3-A	Lab Control Sample Dup	88	83
MB 860-40168/1-A	Method Blank	93	82

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(35-135)	(25-143)
860-19993-1	Cell21-Square58-5-3-4-220128	60	66
860-19993-2	Cell21-Square88-5-3-4-220128	72	72
LCS 860-40042/2-A	Lab Control Sample	80	98
LCSD 860-40042/3-A	Lab Control Sample Dup	81	97
MB 860-40042/1-A	Method Blank	74	97

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)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(35-140)	(37-142)
860-19993-1	Cell21-Square58-5-3-4-220128	57	65
860-19993-2	Cell21-Square88-5-3-4-220128	67	79
LCS 860-40042/14-A	Lab Control Sample	81	87
LCSD 860-40042/15-A	Lab Control Sample Dup	79	83
MB 860-40042/1-A	Method Blank	73	81

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

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)								
860-19993-1	Cell21-Square58-5-3-4-220128	109								
860-19993-2	Cell21-Square88-5-3-4-220128	106								
LCS 280-565273/2-A	Lab Control Sample	104								
MB 280-565273/1-A	Method Blank	106								

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)							
860-19993-1	Cell21-Square58-5-3-4-220128	104	105							
860-19993-2	Cell21-Square88-5-3-4-220128	104	109							
DLCK 280-556129/13	Lab Control Sample	98	105							
LCS 280-565221/2-A	Lab Control Sample	103	109							
MB 280-565221/1-A	Method Blank	104	104							

Surrogate Legend

C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS

QC Sample Results

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

Job ID: 860-19993-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192728/7
Matrix: Solid
Analysis Batch: 192728

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			02/01/22 12:08	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			02/01/22 12:08	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			02/01/22 12:08	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			02/01/22 12:08	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			02/01/22 12:08	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			02/01/22 12:08	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			02/01/22 12:08	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			02/01/22 12:08	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			02/01/22 12:08	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			02/01/22 12:08	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			02/01/22 12:08	1
Benzene	0.630	U	5.00	0.630	ug/Kg			02/01/22 12:08	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			02/01/22 12:08	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			02/01/22 12:08	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			02/01/22 12:08	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			02/01/22 12:08	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			02/01/22 12:08	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			02/01/22 12:08	1
Toluene	0.900	U	5.00	0.900	ug/Kg			02/01/22 12:08	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			02/01/22 12:08	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			02/01/22 12:08	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			02/01/22 12:08	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			02/01/22 12:08	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			02/01/22 12:08	1
Styrene	0.300	U	5.00	0.300	ug/Kg			02/01/22 12:08	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			02/01/22 12:08	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			02/01/22 12:08	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			02/01/22 12:08	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			02/01/22 12:08	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			02/01/22 12:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*50 - 136*		*02/01/22 12:08*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*02/01/22 12:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*65 - 152*		*02/01/22 12:08*	*1*
Toluene-d8 (Surr)	*93*		*65 - 139*		*02/01/22 12:08*	*1*

QC Sample Results

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

Job ID: 860-19993-1

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

Lab Sample ID: LCS 560-192728/3
Matrix: Solid
Analysis Batch: 192728

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	27.81		ug/Kg		70	13 - 130
Chloromethane	40.0	28.56		ug/Kg		71	61 - 137
Vinyl chloride	40.0	30.74		ug/Kg		77	65 - 139
Bromomethane	40.0	30.04		ug/Kg		75	57 - 155
Trichlorofluoromethane	40.0	31.28		ug/Kg		78	68 - 146
Acrolein	395	349.8		ug/Kg		89	20 - 150
1,1-Dichloroethene	40.0	33.11		ug/Kg		83	70 - 130
trans-1,2-Dichloroethene	40.0	33.40		ug/Kg		84	70 - 132
Methyl tert-butyl ether	40.0	33.60		ug/Kg		84	70 - 130
1,3-Dichlorobenzene	40.0	33.01		ug/Kg		83	70 - 130
Methylene Chloride	40.0	34.04		ug/Kg		85	61 - 150
Acrylonitrile	400	333.9		ug/Kg		83	66 - 137
cis-1,2-Dichloroethene	40.0	33.88		ug/Kg		85	70 - 130
Carbon tetrachloride	40.0	30.63		ug/Kg		77	70 - 136
Benzene	40.0	33.74		ug/Kg		84	70 - 131
1,2-Dichloroethane	40.0	29.88		ug/Kg		75	70 - 130
Trichloroethene	40.0	31.51		ug/Kg		79	70 - 130
1,1,1-Trichloroethane	40.0	31.67		ug/Kg		79	70 - 132
1,1-Dichloroethane	40.0	32.61		ug/Kg		82	70 - 130
1,2-Dichloropropane	40.0	34.10		ug/Kg		85	70 - 130
1,4-Dioxane	800	661.1		ug/Kg		83	10 - 150
Chloroform	40.0	31.62		ug/Kg		79	70 - 130
Bromodichloromethane	40.0	32.99		ug/Kg		82	70 - 130
1,1-Dichloropropene	40.0	35.04		ug/Kg		88	70 - 130
cis-1,3-Dichloropropene	40.0	30.48		ug/Kg		76	70 - 130
Toluene	40.0	30.62		ug/Kg		77	70 - 130
trans-1,3-Dichloropropene	40.0	31.78		ug/Kg		79	70 - 131
1,1,2-Trichloroethane	40.0	31.02		ug/Kg		78	70 - 130
Tetrachloroethene	40.0	26.38	*	ug/Kg		66	70 - 130
1,3-Dichloropropene, Total	80.0	62.26		ug/Kg		78	
1,2-Dibromoethane	40.0	29.65		ug/Kg		74	70 - 130
Monochlorobenzene	40.0	29.60		ug/Kg		74	70 - 130
Ethylbenzene	40.0	32.94		ug/Kg		82	70 - 130
Xylenes, Total	80.0	68.53		ug/Kg		86	70 - 130
Styrene	40.0	33.32		ug/Kg		83	70 - 130
Tribromomethane	40.0	26.32		ug/Kg		66	59 - 137
1,1,2,2-Tetrachloroethane	40.0	35.87		ug/Kg		90	70 - 130
1,4-Dichlorobenzene	40.0	31.78		ug/Kg		79	70 - 130
1,2-Dichlorobenzene	40.0	33.18		ug/Kg		83	70 - 130
1,2,4-Trichlorobenzene	40.0	35.30		ug/Kg		88	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*50 - 136*
4-Bromofluorobenzene (Surr)	*117*		*61 - 142*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*96*		*65 - 139*

QC Sample Results

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

Job ID: 860-19993-1

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

Lab Sample ID: LCSD 560-192728/4
Matrix: Solid
Analysis Batch: 192728

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
Dichlorodifluoromethane			40.0	29.94		ug/Kg		75	13 - 130	7	30.0
Chloromethane			40.0	31.79		ug/Kg		79	61 - 137	11	30.0
Vinyl chloride			40.0	34.81		ug/Kg		87	65 - 139	12	30.0
Bromomethane			40.0	34.71		ug/Kg		87	57 - 155	14	30.0
Trichlorofluoromethane			40.0	36.85		ug/Kg		92	68 - 146	16	30.0
Acrolein			395	418.2		ug/Kg		106	20 - 150	18	30.0
1,1-Dichloroethene			40.0	39.62		ug/Kg		99	70 - 130	18	30.0
trans-1,2-Dichloroethene			40.0	39.09		ug/Kg		98	70 - 132	16	30.0
Methyl tert-butyl ether			40.0	40.41		ug/Kg		101	70 - 130	18	30.0
1,3-Dichlorobenzene			40.0	37.58		ug/Kg		94	70 - 130	13	30.0
Methylene Chloride			40.0	39.98		ug/Kg		100	61 - 150	16	30.0
Acrylonitrile			400	401.8		ug/Kg		100	66 - 137	18	30.0
cis-1,2-Dichloroethene			40.0	39.65		ug/Kg		99	70 - 130	16	30.0
Carbon tetrachloride			40.0	35.76		ug/Kg		89	70 - 136	15	30.0
Benzene			40.0	39.78		ug/Kg		99	70 - 131	16	30.0
1,2-Dichloroethane			40.0	35.30		ug/Kg		88	70 - 130	17	30.0
Trichloroethene			40.0	37.56		ug/Kg		94	70 - 130	18	30.0
1,1,1-Trichloroethane			40.0	35.61		ug/Kg		89	70 - 132	12	30.0
1,1-Dichloroethane			40.0	38.37		ug/Kg		96	70 - 130	16	30.0
1,2-Dichloropropane			40.0	40.38		ug/Kg		101	70 - 130	17	30.0
1,4-Dioxane			800	881.6		ug/Kg		110	10 - 150	29	30.0
Chloroform			40.0	36.89		ug/Kg		92	70 - 130	15	30.0
Bromodichloromethane			40.0	39.29		ug/Kg		98	70 - 130	17	30.0
1,1-Dichloropropene			40.0	40.73		ug/Kg		102	70 - 130	15	30.0
cis-1,3-Dichloropropene			40.0	35.87		ug/Kg		90	70 - 130	16	30.0
Toluene			40.0	35.67		ug/Kg		89	70 - 130	15	30.0
trans-1,3-Dichloropropene			40.0	38.22		ug/Kg		96	70 - 131	18	30.0
1,1,2-Trichloroethane			40.0	37.05		ug/Kg		93	70 - 130	18	30.0
Tetrachloroethene			40.0	29.91		ug/Kg		75	70 - 130	13	30.0
1,3-Dichloropropene, Total			80.0	74.09		ug/Kg		93		17	30
1,2-Dibromoethane			40.0	36.02		ug/Kg		90	70 - 130	19	30.0
Monochlorobenzene			40.0	34.31		ug/Kg		86	70 - 130	15	30.0
Ethylbenzene			40.0	38.55		ug/Kg		96	70 - 130	16	30.0
Xylenes, Total			80.0	80.97		ug/Kg		101	70 - 130	17	30.0
Styrene			40.0	39.35		ug/Kg		98	70 - 130	17	30.0
Tribromomethane			40.0	31.27		ug/Kg		78	59 - 137	17	30.0
1,1,2,2-Tetrachloroethane			40.0	41.83		ug/Kg		105	70 - 130	15	30.0
1,4-Dichlorobenzene			40.0	36.37		ug/Kg		91	70 - 130	13	30.0
1,2-Dichlorobenzene			40.0	37.66		ug/Kg		94	70 - 130	13	30.0
1,2,4-Trichlorobenzene			40.0	38.56		ug/Kg		96	68 - 140	9	30.0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*
1,2-Dichloroethane-d4 (Surr)	*96*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-40051/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

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			02/03/22 00:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*02/03/22 00:47*	*1*

Lab Sample ID: LCS 860-40051/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.05356		mg/Kg		107	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*

Lab Sample ID: LCSD 860-40051/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.05670		mg/Kg		113	65 - 135	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-566137/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/10/22 13:25	02/14/22 17:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*95*		*30 - 164*	*02/10/22 13:25*	*02/14/22 17:25*	*1*

Lab Sample ID: LCS 400-566137/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	313.3		ug/Kg		94	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*98*		*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39639/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

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		01/31/22 15:04	02/01/22 21:02	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/31/22 15:04	02/01/22 21:02	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39639/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/31/22 15:04	02/01/22 21:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*30 - 115*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
2-Fluorophenol	*93*		*25 - 121*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
2,4,6-Tribromophenol	*85*		*19 - 122*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
Nitrobenzene-d5	*86*		*23 - 129*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
Phenol-d5 (Surr)	*89*		*24 - 113*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
p-Terphenyl-d14 (Surr)	*98*		*18 - 137*	*01/31/22 15:04*	*02/01/22 21:02*	*1*

Lab Sample ID: LCS 860-39639/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	874.6		ug/Kg		66	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	808.2		ug/Kg		61	35 - 135
1-Methylnaphthalene	1330	816.4		ug/Kg		61	38 - 127
bis (2-chloroisopropyl) ether	1330	779.8		ug/Kg		58	25 - 124
2,4,5-Trichlorophenol	1330	927.5		ug/Kg		70	40 - 135
2,4,6-Trichlorophenol	1330	892.7		ug/Kg		67	39 - 139
2,4-Dinitrotoluene	1330	853.2		ug/Kg		64	48 - 131
Dinitrophenols	1330	850.2		ug/Kg		64	19 - 131
2,4-Dichlorophenol	1330	894.4		ug/Kg		67	36 - 135
2,6-Dinitrotoluene	1330	949.9		ug/Kg		71	42 - 136
Dichlorobenzidine, 3,3'-	1330	738.8		ug/Kg		55	35 - 134
4,6-Dinitro-2-methylphenol	1330	859.4		ug/Kg		64	30 - 146
Acenaphthene	1330	809.3		ug/Kg		61	37 - 131
Anthracene	1330	891.3		ug/Kg		67	39 - 139
Acenaphthylene	1330	846.2		ug/Kg		63	39 - 129
Benzo[a]anthracene	1330	850.8		ug/Kg		64	44 - 135
Benzo[b]fluoranthene	1330	903.2		ug/Kg		68	40 - 153
Benzo[k]fluoranthene	1330	929.8		ug/Kg		70	33 - 156
Benzo[g,h,i]perylene	1330	950.8		ug/Kg		71	40 - 153
Benzo[a]pyrene	1330	968.4		ug/Kg		73	43 - 153
Di (2-ethylhexyl)phthalate	1330	813.5		ug/Kg		61	46 - 145
Bis(2-chloroethyl)ether	1330	782.9		ug/Kg		59	33 - 127
Chrysene	1330	829.6		ug/Kg		62	42 - 135
Dibutylphthalate	1330	989.1		ug/Kg		74	43 - 142
Dibenz(a,h)anthracene	1330	938.2		ug/Kg		70	41 - 155
Diethyl phthalate	1330	880.2		ug/Kg		66	45 - 131
Dimethyl phthalate	1330	852.7		ug/Kg		64	43 - 132
Fluoranthene	1330	919.1		ug/Kg		69	41 - 138
Fluorene	1330	841.1		ug/Kg		63	41 - 131
Hexachlorobenzene	1330	850.7		ug/Kg		64	36 - 142
Hexachlorobutadiene	1330	790.6		ug/Kg		59	35 - 129

QC Sample Results

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

Job ID: 860-19993-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39639/2-A
Matrix: Solid
Analysis Batch: 39861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39639

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hexachlorocyclopentadiene			1330	840.4		ug/Kg		63	16 - 106		
Hexachloroethane			1330	803.1		ug/Kg		60	36 - 121		
Indeno[1,2,3-cd]pyrene			1330	953.5		ug/Kg		72	39 - 154		
Isophorone			1330	832.7		ug/Kg		62	36 - 128		
N-Nitrosodi-n-butylamine			1330	1004		ug/Kg		75	34 - 135		
N-Nitrosodiethylamine			1330	829.3		ug/Kg		62	36 - 127		
N-Nitrosodiphenylamine			1330	882.4		ug/Kg		66	27 - 155		
N-Nitrosopyrrolidine			1330	891.2		ug/Kg		67	38 - 136		
Pentachlorobenzene			1330	839.4		ug/Kg		63	38 - 136		
Pentachlorophenol			1330	805.8		ug/Kg		60	14 - 148		
Phenanthrene			1330	838.2		ug/Kg		63	37 - 139		
Pyrene			1330	871.8		ug/Kg		65	42 - 138		
Naphthalene			1330	791.0		ug/Kg		59	35 - 128		
2-Methylnaphthalene			1330	822.6		ug/Kg		62	36 - 126		
Nitrobenzene			1330	829.2		ug/Kg		62	32 - 129		
Benzidine			1330	364.8		ug/Kg		27	12 - 112		
Phenol			1.33	0.8518		mg/Kg		64	34 - 127		
N-Nitrosodimethylamine			1330	792.4		ug/Kg		59	27 - 126		
Atrazine			1330	1094		ug/Kg		82	18 - 134		
Thiophene, tetrahydro-, 1,1-dioxide			1330	774.2		ug/Kg		58	30 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*30 - 115*
2-Fluorophenol	*79*		*25 - 121*
2,4,6-Tribromophenol	*85*		*19 - 122*
Nitrobenzene-d5	*77*		*23 - 129*
Phenol-d5 (Surr)	*80*		*24 - 113*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*

Lab Sample ID: LCSD 860-39639/3-A
Matrix: Solid
Analysis Batch: 39861

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39639

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)			1330	959.6		ug/Kg		72	20 - 157	9	30
1,2,4,5-Tetrachlorobenzene			1330	897.1		ug/Kg		67	35 - 135	10	30
1-Methylnaphthalene			1330	888.9		ug/Kg		67	38 - 127	9	30
bis (2-chloroisopropyl) ether			1330	850.2		ug/Kg		64	25 - 124	9	30
2,4,5-Trichlorophenol			1330	1033		ug/Kg		77	40 - 135	11	30
2,4,6-Trichlorophenol			1330	1019		ug/Kg		76	39 - 139	13	30
2,4-Dinitrotoluene			1330	933.1		ug/Kg		70	48 - 131	9	30
Dinitrophenols			1330	941.5		ug/Kg		71	19 - 131	10	40
2,4-Dichlorophenol			1330	981.5		ug/Kg		74	36 - 135	9	30
2,6-Dinitrotoluene			1330	1054		ug/Kg		79	42 - 136	10	30
Dichlorobenzidine, 3,3'-			1330	796.1		ug/Kg		60	35 - 134	7	40
4,6-Dinitro-2-methylphenol			1330	938.7		ug/Kg		70	30 - 146	9	40
Acenaphthene			1330	900.9		ug/Kg		68	37 - 131	11	30

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39639/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene			1330	957.3		ug/Kg		72	39 - 139	7	30
Acenaphthylene			1330	947.1		ug/Kg		71	39 - 129	11	30
Benzo[a]anthracene			1330	930.5		ug/Kg		70	44 - 135	9	30
Benzo[b]fluoranthene			1330	961.1		ug/Kg		72	40 - 153	6	30
Benzo[k]fluoranthene			1330	1010		ug/Kg		76	33 - 156	8	30
Benzo[g,h,i]perylene			1330	1034		ug/Kg		78	40 - 153	8	30
Benzo[a]pyrene			1330	1042		ug/Kg		78	43 - 153	7	30
Di (2-ethylhexyl)phthalate			1330	872.8		ug/Kg		65	46 - 145	7	30
Bis(2-chloroethyl)ether			1330	861.0		ug/Kg		65	33 - 127	9	30
Chrysene			1330	898.5		ug/Kg		67	42 - 135	8	30
Dibutylphthalate			1330	1061		ug/Kg		80	43 - 142	7	30
Dibenz(a,h)anthracene			1330	1022		ug/Kg		77	41 - 155	9	30
Diethyl phthalate			1330	960.3		ug/Kg		72	45 - 131	9	30
Dimethyl phthalate			1330	940.1		ug/Kg		71	43 - 132	10	30
Fluoranthene			1330	994.2		ug/Kg		75	41 - 138	8	30
Fluorene			1330	936.7		ug/Kg		70	41 - 131	11	30
Hexachlorobenzene			1330	918.1		ug/Kg		69	36 - 142	8	30
Hexachlorobutadiene			1330	879.5		ug/Kg		66	35 - 129	11	30
Hexachlorocyclopentadiene			1330	941.9		ug/Kg		71	16 - 106	11	30
Hexachloroethane			1330	874.6		ug/Kg		66	36 - 121	9	30
Indeno[1,2,3-cd]pyrene			1330	1047		ug/Kg		79	39 - 154	9	30
Isophorone			1330	910.5		ug/Kg		68	36 - 128	9	30
N-Nitrosodi-n-butylamine			1330	1098		ug/Kg		82	34 - 135	9	30
N-Nitrosodiethylamine			1330	932.0		ug/Kg		70	36 - 127	12	30
N-Nitrosodiphenylamine			1330	973.6		ug/Kg		73	27 - 155	10	30
N-Nitrosopyrrolidine			1330	981.1		ug/Kg		74	38 - 136	10	30
Pentachlorobenzene			1330	935.9		ug/Kg		70	38 - 136	11	30
Pentachlorophenol			1330	931.9		ug/Kg		70	14 - 148	15	40
Phenanthrene			1330	908.2		ug/Kg		68	37 - 139	8	30
Pyrene			1330	927.4		ug/Kg		70	42 - 138	6	30
Naphthalene			1330	873.4		ug/Kg		66	35 - 128	10	30
2-Methylnaphthalene			1330	903.5		ug/Kg		68	36 - 126	9	30
Nitrobenzene			1330	923.8		ug/Kg		69	32 - 129	11	30
Benzidine			1330	322.1	J	ug/Kg		24	12 - 112	12	40
Phenol			1.33	0.9432		mg/Kg		71	34 - 127	10	40
N-Nitrosodimethylamine			1330	883.0		ug/Kg		66	27 - 126	11	30
Atrazine			1330	1171		ug/Kg		88	18 - 134	7	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	828.0		ug/Kg		62	30 - 130	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*30 - 115*
2-Fluorophenol	*87*		*25 - 121*
2,4,6-Tribromophenol	*89*		*19 - 122*
Nitrobenzene-d5	*84*		*23 - 129*
Phenol-d5 (Surr)	*86*		*24 - 113*
p-Terphenyl-d14 (Surr)	*85*		*18 - 137*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-40168/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40117 **Prep Batch: 40168**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 14:42	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 14:42	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 14:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*65 - 130*	*02/03/22 13:11*	*02/03/22 14:42*	*1*
o-Terphenyl (Surr)	*82*		*65 - 130*	*02/03/22 13:11*	*02/03/22 14:42*	*1*

Lab Sample ID: LCS 860-40168/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40117 **Prep Batch: 40168**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	994	950.3		mg/Kg		96	70 - 135
Diesel Range Organics (Over C10-C28)	996	912.0		mg/Kg		92	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*90*		*65 - 130*
o-Terphenyl (Surr)	*83*		*65 - 130*

Lab Sample ID: LCSD 860-40168/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40117 **Prep Batch: 40168**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	994	950.2		mg/Kg		96	70 - 135	0	35
Diesel Range Organics (Over C10-C28)	996	927.1		mg/Kg		93	70 - 135	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*65 - 130*
o-Terphenyl (Surr)	*83*		*65 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-40042/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		02/02/22 17:01	02/03/22 10:30	1

QC Sample Results

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

Job ID: 860-19993-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-40042/1-A
Matrix: Solid
Analysis Batch: 40085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endrin	0.291	U	0.833	0.291	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		02/02/22 17:01	02/03/22 10:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*35 - 135*	*02/02/22 17:01*	*02/03/22 10:30*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*25 - 143*	*02/02/22 17:01*	*02/03/22 10:30*	*1*

Lab Sample ID: LCS 860-40042/2-A
Matrix: Solid
Analysis Batch: 40085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	16.7	19.00		ug/Kg		114	13 - 192
Aldrin	16.7	15.48		ug/Kg		93	30 - 152
Hexachlorocyclohexane, alpha-	16.7	16.23		ug/Kg		97	29 - 160
Hexachlorocyclohexane, beta-	16.7	15.71		ug/Kg		94	30 - 155
Hexachlorocyclohexane, delta-	16.7	16.67		ug/Kg		100	20 - 161
Dieldrin	16.7	16.54		ug/Kg		99	33 - 153
Endosulfan I	16.7	16.10		ug/Kg		97	30 - 151
Endosulfan II	16.7	16.72		ug/Kg		100	27 - 153
Endosulfan sulfate	16.7	17.54		ug/Kg		105	15 - 170
Endrin	16.7	16.76		ug/Kg		101	25 - 162
Endrin aldehyde	16.7	16.07		ug/Kg		96	49 - 117
Hexachlorocyclohexane, gamma-	16.7	16.67		ug/Kg		100	30 - 158
Heptachlor	16.7	16.14		ug/Kg		97	29 - 163
Heptachlor epoxide	16.7	15.75		ug/Kg		94	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*98*		*25 - 143*

Lab Sample ID: LCSD 860-40042/3-A
Matrix: Solid
Analysis Batch: 40085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40042

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT	16.7	17.60		ug/Kg		106	13 - 192	8	25

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-40042/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.7	15.39		ug/Kg		92	30 - 152	1	25
Hexachlorocyclohexane, alpha-			16.7	16.97		ug/Kg		102	29 - 160	4	25
Hexachlorocyclohexane, beta-			16.7	16.46		ug/Kg		99	30 - 155	5	25
Hexachlorocyclohexane, delta-			16.7	17.35		ug/Kg		104	20 - 161	4	25
Dieldrin			16.7	16.24		ug/Kg		97	33 - 153	2	25
Endosulfan I			16.7	15.92		ug/Kg		95	30 - 151	1	25
Endosulfan II			16.7	16.55		ug/Kg		99	27 - 153	1	25
Endosulfan sulfate			16.7	17.33		ug/Kg		104	15 - 170	1	25
Endrin			16.7	15.76		ug/Kg		95	25 - 162	6	25
Endrin aldehyde			16.7	16.02		ug/Kg		96	49 - 117	0	25
Hexachlorocyclohexane, gamma-			16.7	17.18		ug/Kg		103	30 - 158	3	25
Heptachlor			16.7	17.49		ug/Kg		105	29 - 163	8	25
Heptachlor epoxide			16.7	15.65		ug/Kg		94	30 - 150	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*97*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-40042/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40154 **Prep Batch: 40042**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		02/02/22 17:01	02/03/22 13:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*35 - 140*	*02/02/22 17:01*	*02/03/22 13:13*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 142*	*02/02/22 17:01*	*02/03/22 13:13*	*1*

Lab Sample ID: LCS 860-40042/14-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40154 **Prep Batch: 40042**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016			0.167	0.1576		mg/Kg		94	27 - 121
Aroclor 1260			0.167	0.1512		mg/Kg		91	27 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*35 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-40042/14-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40154 **Prep Batch: 40042**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	87		37 - 142

Lab Sample ID: LCSD 860-40042/15-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40154 **Prep Batch: 40042**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.166	0.1527		mg/Kg		92	27 - 121	3	20
Aroclor 1260			0.166	0.1461		mg/Kg		88	27 - 139	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	79		35 - 140
DCB Decachlorobiphenyl (Surr)	83		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565273/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565765 **Prep Batch: 565273**

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		02/07/22 15:28	02/11/22 02:02	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/07/22 15:28	02/11/22 02:02	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/07/22 15:28	02/11/22 02:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	106		83 - 122	02/07/22 15:28	02/11/22 02:02	1

Lab Sample ID: LCS 280-565273/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565765 **Prep Batch: 565273**

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	0.9626		mg/Kg		96	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9928		mg/Kg		99	80 - 124
2,4,6-Trinitrotoluene			1.00	1.035		mg/Kg		103	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	104		83 - 122

QC Sample Results

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

Job ID: 860-19993-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-39863/32-A
Matrix: Solid
Analysis Batch: 40032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39863

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrite as N	0.0500	U	1.00	0.0500	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrate Nitrite as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		02/01/22 20:43	02/03/22 00:14	1

Lab Sample ID: LCS 860-39863/33-A
Matrix: Solid
Analysis Batch: 40032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39863

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	100.2		mg/Kg		100	80 - 120
Nitrate as N	100	100.1		mg/Kg		100	80 - 120
Fluoride	100	102.1		mg/Kg		102	80 - 120
Nitrite as N	50.0	47.27		mg/Kg		95	80 - 120
Nitrate Nitrite as N	150	147.4		mg/Kg		98	80 - 120
Sulfate	100	99.86		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 860-39863/34-A
Matrix: Solid
Analysis Batch: 40032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39863

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	100.9		mg/Kg		101	80 - 120	1	20
Nitrate as N	100	100.3		mg/Kg		100	80 - 120	0	20
Fluoride	100	102.5		mg/Kg		103	80 - 120	0	20
Nitrite as N	50.0	47.17		mg/Kg		94	80 - 120	0	20
Nitrate Nitrite as N	150	147.5		mg/Kg		98	80 - 120	0	20
Sulfate	100	99.95		mg/Kg		100	80 - 120	0	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12
Matrix: Solid
Analysis Batch: 564802

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

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.04711	J	ug/L		94	70 - 130

Lab Sample ID: MB 280-565332/1-A
Matrix: Solid
Analysis Batch: 565538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565332

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/07/22 14:51	02/08/22 15:45	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS (Continued)

Lab Sample ID: LCS 280-565332/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565538 **Prep Batch: 565332**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5210		ug/Kg		104	80 - 120

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 556129

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.500	0.490	U	ug/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4417	J	ug/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		95	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

Lab Sample ID: MB 280-565221/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566231 **Prep Batch: 565221**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/07/22 10:31	02/16/22 09:44	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/07/22 10:31	02/16/22 09:44	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/07/22 10:31	02/16/22 09:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/07/22 10:31*	*02/16/22 09:44*	*1*
13C8 PFOS	*104*		*70 - 130*	*02/07/22 10:31*	*02/16/22 09:44*	*1*

Lab Sample ID: LCS 280-565221/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566231 **Prep Batch: 565221**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	19.34		ug/Kg		97	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	17.39		ug/Kg		96	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.15		ug/Kg		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*103*		*57 - 153*
13C8 PFOS	*109*		*70 - 130*

QC Sample Results

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

Job ID: 860-19993-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-40290/1-A
Matrix: Solid
Analysis Batch: 40589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40290

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/04/22 11:08	02/07/22 19:05	1

Lab Sample ID: LCS 860-40290/2-A
Matrix: Solid
Analysis Batch: 40589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	4.81	4.772		mg/Kg		99	80 - 120
Arsenic	9.62	8.596		mg/Kg		89	80 - 120
Barium	9.62	8.620		mg/Kg		90	80 - 120
Beryllium	9.62	8.517		mg/Kg		89	80 - 120
Cadmium	9.62	8.661		mg/Kg		90	80 - 120
Chromium	9.62	8.582		mg/Kg		89	80 - 120
Copper	9.62	8.540		mg/Kg		89	80 - 120
Iron	48.1	40.92		mg/Kg		85	80 - 120
Manganese	9.62	8.813		mg/Kg		92	80 - 120
Lead	9.62	8.542		mg/Kg		89	80 - 120
Antimony	9.62	9.150		mg/Kg		95	80 - 120
Selenium	9.62	8.591		mg/Kg		89	80 - 120
Thallium	9.62	8.670		mg/Kg		90	80 - 120
Uranium	2.40	2.122		mg/Kg		88	80 - 120
Zinc	9.62	8.983		mg/Kg		93	80 - 120

Lab Sample ID: LCSD 860-40290/3-A
Matrix: Solid
Analysis Batch: 40589

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40290

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	5.00	4.977		mg/Kg		100	80 - 120	4	20
Arsenic	10.0	8.962		mg/Kg		90	80 - 120	4	20
Barium	10.0	9.089		mg/Kg		91	80 - 120	5	20
Beryllium	10.0	8.789		mg/Kg		88	80 - 120	3	20
Cadmium	10.0	9.036		mg/Kg		90	80 - 120	4	20
Chromium	10.0	8.782		mg/Kg		88	80 - 120	2	20
Copper	10.0	8.762		mg/Kg		88	80 - 120	3	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-40290/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40589 **Prep Batch: 40290**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	50.0	41.22		mg/Kg		82	80 - 120	1	20
Manganese	10.0	8.931		mg/Kg		89	80 - 120	1	20
Lead	10.0	8.865		mg/Kg		89	80 - 120	4	20
Antimony	10.0	9.621		mg/Kg		96	80 - 120	5	20
Selenium	10.0	9.025		mg/Kg		90	80 - 120	5	20
Thallium	10.0	8.984		mg/Kg		90	80 - 120	4	20
Uranium	2.50	2.223		mg/Kg		89	80 - 120	5	20
Zinc	10.0	9.206		mg/Kg		92	80 - 120	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39891/10-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40004 **Prep Batch: 39891**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00384	U	0.0200	0.00384	mg/Kg		02/02/22 09:00	02/02/22 12:56	1

Lab Sample ID: LCS 860-39891/11-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40004 **Prep Batch: 39891**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.196	0.1996		mg/Kg		102	80 - 120

Lab Sample ID: LCSD 860-39891/12-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40004 **Prep Batch: 39891**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.196	0.2002		mg/Kg		102	80 - 120	0	20

Lab Sample ID: 860-19993-1 MS **Client Sample ID: Cell21-Square58-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40004 **Prep Batch: 39891**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0121	J	0.189	0.1977		mg/Kg		98	75 - 125

Lab Sample ID: 860-19993-1 MSD **Client Sample ID: Cell21-Square58-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40004 **Prep Batch: 39891**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0121	J	0.189	0.1932		mg/Kg		96	75 - 125	2	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40886/22-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/09/22 15:50	02/09/22 17:14	1

Lab Sample ID: LCS 860-40886/23-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	102.7		ug/Kg		103	90 - 110

Lab Sample ID: LLCS 860-40886/24-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	50.0	52.26		ug/Kg		105	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193044/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/10/22 15:50	1

Lab Sample ID: LCS 560-193044/2 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193044

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	2250	2168		mg/L		96	90 - 110

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-549566/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 552703 — **Prep Batch: 549566**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.04328	U	0.109	0.109	1.00	0.430	pCi/g	02/07/22 11:13	02/28/22 08:17	1
Radium-228	0.03606	U	0.121	0.121		0.225	pCi/g	02/07/22 11:13	02/28/22 08:17	1
Combined Radium 226 + 228	-0.007223	U	0.163	0.163		0.430	pCi/g	02/07/22 11:13	02/28/22 08:17	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: LCS 160-549566/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 552704 **Prep Batch: 549566**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.2	98.17		11.8		1.22	pCi/g	102	75 - 125
Cesium-137	26.0	26.58		3.23		0.184	pCi/g	102	75 - 125
Cobalt-60	8.07	8.153		1.01		0.0392	pCi/g	101	75 - 125

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	5035	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	5035	

Analysis Batch: 40051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8260D SIM	39768
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8260D SIM	39768
MB 860-40051/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-40051/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-40051/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8260B	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8260B	
MB 560-192728/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192728/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192728/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	3550C	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	3550C	
MB 860-39639/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39639/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39639/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 39861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8270D	39639
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8270D	39639
MB 860-39639/1-A	Method Blank	Total/NA	Solid	8270D	39639
LCS 860-39639/2-A	Lab Control Sample	Total/NA	Solid	8270D	39639
LCSD 860-39639/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	39639

Prep Batch: 566137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	3546	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	3546	
MB 400-566137/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 566465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8270D	566137
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8270D	566137
MB 400-566137/1-A	Method Blank	Total/NA	Solid	8270D	566137
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	8270D	566137

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Prep Batch: 40042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	3550C	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	3550C	
MB 860-40042/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-40042/14-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-40042/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-40042/15-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-40042/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 40085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8081B	40042
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8081B	40042
MB 860-40042/1-A	Method Blank	Total/NA	Solid	8081B	40042
LCS 860-40042/2-A	Lab Control Sample	Total/NA	Solid	8081B	40042
LCSD 860-40042/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	40042

Analysis Batch: 40117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8015B NM	40168
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8015B NM	40168
MB 860-40168/1-A	Method Blank	Total/NA	Solid	8015B NM	40168
LCS 860-40168/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40168
LCSD 860-40168/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40168

Analysis Batch: 40154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8082A	40042
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8082A	40042
MB 860-40042/1-A	Method Blank	Total/NA	Solid	8082A	40042
LCS 860-40042/14-A	Lab Control Sample	Total/NA	Solid	8082A	40042
LCSD 860-40042/15-A	Lab Control Sample Dup	Total/NA	Solid	8082A	40042

Prep Batch: 40168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8015NM Prep	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8015NM Prep	
MB 860-40168/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-40168/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-40168/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Prep Batch: 39863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	300_Prep	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	300_Prep	
MB 860-39863/32-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Analysis Batch: 40032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	9056A	39863
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	9056A	39863
MB 860-39863/32-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	9056A	39863
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39863

Analysis Batch: 40033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	9056A	39863
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	9056A	39863
MB 860-39863/32-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	9056A	39863
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39863

Drying Batch: 565114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8330B	565114
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8330B	565114
MB 280-565273/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565273/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 565765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8330B	565273
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8330B	565273
MB 280-565273/1-A	Method Blank	Total/NA	Solid	8330B	565273
LCS 280-565273/2-A	Lab Control Sample	Total/NA	Solid	8330B	565273

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	PFC leach	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	PFC leach	
MB 280-565221/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565221/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

LCMS

Prep Batch: 565332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	6860	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	6860	
MB 280-565332/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565332/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	6860	565332
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	6860	565332
MB 280-565332/1-A	Method Blank	Total/NA	Solid	6860	565332
LCS 280-565332/2-A	Lab Control Sample	Total/NA	Solid	6860	565332

Analysis Batch: 566231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	DV-LC-0012	565221
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	DV-LC-0012	565221
MB 280-565221/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565221
LCS 280-565221/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565221

Metals

Prep Batch: 39891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	7471A	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	7471A	
MB 860-39891/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39891/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39891/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-19993-1 MS	Cell21-Square58-5-3-4-220128	Total/NA	Solid	7471A	
860-19993-1 MSD	Cell21-Square58-5-3-4-220128	Total/NA	Solid	7471A	

Analysis Batch: 40004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	7471A	39891
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	7471A	39891
MB 860-39891/10-A	Method Blank	Total/NA	Solid	7471A	39891
LCS 860-39891/11-A	Lab Control Sample	Total/NA	Solid	7471A	39891
LCSD 860-39891/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39891
860-19993-1 MS	Cell21-Square58-5-3-4-220128	Total/NA	Solid	7471A	39891
860-19993-1 MSD	Cell21-Square58-5-3-4-220128	Total/NA	Solid	7471A	39891

Prep Batch: 40290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	3051A	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	3051A	
MB 860-40290/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-40290/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-40290/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Analysis Batch: 40589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	6020A	40290
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	6020A	40290
MB 860-40290/1-A	Method Blank	Total/NA	Solid	6020A	40290
LCS 860-40290/2-A	Lab Control Sample	Total/NA	Solid	6020A	40290
LCSD 860-40290/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	40290

General Chemistry

Analysis Batch: 39955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	Moisture - 2540	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	Moisture - 2540	
MB 860-39955/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Prep Batch: 40886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	9012A	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	9012A	
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	

Analysis Batch: 40920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	9012A	40886
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	9012A	40886
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	40886
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	40886
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	40886

Leach Batch: 41396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Soluble	Solid	DI Leach	
860-19993-2	Cell21-Square88-5-3-4-220128	Soluble	Solid	DI Leach	

Analysis Batch: 41417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Soluble	Solid	9045D	41396
860-19993-2	Cell21-Square88-5-3-4-220128	Soluble	Solid	9045D	41396

Prep Batch: 42223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	Distill/Phenol	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 42401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	9066	42223
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	9066	42223

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Leach Batch: 193042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	7 Day Leach	Solid	335.521	
860-19993-2	Cell21-Square88-5-3-4-220128	7 Day Leach	Solid	335.521	

Analysis Batch: 193044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	7 Day Leach	Solid	SM 2540C	193042
860-19993-2	Cell21-Square88-5-3-4-220128	7 Day Leach	Solid	SM 2540C	193042
MB 560-193044/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193044/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	Dry and Grind	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	Dry and Grind	

Prep Batch: 549566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	Fill_Geo-21	549041
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	Fill_Geo-21	549041
MB 160-549566/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-549566/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square58-5-3-4-220128 **Lab Sample ID: 860-19993-1**
Date Collected: 01/28/22 08:30 **Matrix: Solid**
Date Received: 01/29/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.13 g	5 mL	192728	02/01/22 15:25	RJD	XEN CC
Total/NA	Prep	5035			4.97 g	5 mL	39768	02/01/22 16:14	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 04:26	A1S	XEN STF
Total/NA	Prep	3550C			30.58 g	1 mL	39639	01/31/22 15:04	TH	XEN STF
Total/NA	Analysis	8270D		10			39861	02/02/22 01:25	T1S	XEN STF
Total/NA	Prep	3546			15.42 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 22:38	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40168	02/03/22 13:11	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			40117	02/03/22 16:23	T1S	XEN STF
Total/NA	Prep	3550C			30.01 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8081B		1			40085	02/03/22 12:34	WP	XEN STF
Total/NA	Prep	3550C			30.01 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8082A		1			40154	02/03/22 14:00	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	565114	02/03/22 11:42	EKB	TAL DEN
Total/NA	Prep	8330B			10.23 g	40 mL	565273	02/07/22 15:28	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565765	02/11/22 05:05	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.97 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40032	02/03/22 02:01	WP	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40033	02/03/22 02:01	WP	XEN STF
Total/NA	Prep	6860			10.24 g	100 mL	565332	02/07/22 14:51	TEH	TAL DEN
Total/NA	Analysis	6860		1			565538	02/08/22 16:16	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.5 g	20 mL	565221	02/07/22 10:31	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566231	02/16/22 10:37	AGCM	TAL DEN
Total/NA	Prep	3051A			.6 g	50 mL	40290	02/04/22 11:08	PB	XEN STF
Total/NA	Analysis	6020A		10			40589	02/07/22 19:40	DCL	XEN STF
Total/NA	Prep	7471A			.50 g	50 mL	39891	02/02/22 09:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			40004	02/02/22 13:00	SHZ	XEN STF
Total/NA	Prep	9012A			0.5007 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:38	CM1	XEN STF
Soluble	Leach	DI Leach			20.16 g	20 mL	41396	02/14/22 12:06	TL	XEN STF
Soluble	Analysis	9045D		1	20.16 g	20 mL	41417	02/14/22 14:32	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 14:05	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			292.5000 g	1.0 g	549566	02/07/22 11:13	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552703	02/28/22 07:38	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square88-5-3-4-220128 **Lab Sample ID: 860-19993-2**
Date Collected: 01/28/22 09:10 **Matrix: Solid**
Date Received: 01/29/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.1 g	5 mL	192728	02/01/22 15:50	RJD	XEN CC
Total/NA	Prep	5035			4.95 g	5 mL	39768	02/01/22 16:14	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 04:48	A1S	XEN STF
Total/NA	Prep	3550C			30.26 g	1 mL	39639	01/31/22 15:04	TH	XEN STF
Total/NA	Analysis	8270D		10			39861	02/02/22 01:49	T1S	XEN STF
Total/NA	Prep	3546			15.23 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 23:04	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10 g	10 mL	40168	02/03/22 13:11	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			40117	02/03/22 16:43	T1S	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8081B		1			40085	02/03/22 12:48	WP	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8082A		1			40154	02/03/22 14:10	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	565114	02/03/22 11:42	EKB	TAL DEN
Total/NA	Prep	8330B			10.81 g	40 mL	565273	02/07/22 15:28	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565765	02/11/22 05:28	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.02 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40032	02/03/22 02:37	WP	XEN STF
Total/NA	Prep	300_Prep			5.02 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40033	02/03/22 02:37	WP	XEN STF
Total/NA	Prep	6860			10.8 g	100 mL	565332	02/07/22 14:51	TEH	TAL DEN
Total/NA	Analysis	6860		1			565538	02/08/22 16:21	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.62 g	20 mL	565221	02/07/22 10:31	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566231	02/16/22 10:46	AGCM	TAL DEN
Total/NA	Prep	3051A			.53 g	50 mL	40290	02/04/22 11:08	PB	XEN STF
Total/NA	Analysis	6020A		10			40589	02/07/22 19:43	DCL	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	39891	02/02/22 09:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			40004	02/02/22 13:10	SHZ	XEN STF
Total/NA	Prep	9012A			0.4978 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:39	CM1	XEN STF
Soluble	Leach	DI Leach			20.04 g	20 mL	41396	02/14/22 12:06	TL	XEN STF
Soluble	Analysis	9045D		1	20.04 g	20 mL	41417	02/14/22 14:32	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 14:07	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			324.2000 g	1.0 g	549566	02/07/22 11:13	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552704	02/28/22 07:39	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

Laboratory: Eurofins St. Louis

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

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

Job ID: 860-19993-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19993-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19993-1	Cell21-Square58-5-3-4-220128	Solid	01/28/22 08:30	01/29/22 09:40
860-19993-2	Cell21-Square88-5-3-4-220128	Solid	01/28/22 09:10	01/29/22 09:40

Released to Imaging: 10/28/2022 10:00:56 AM

Page 880 of 959

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

fins | Environment Testing America

860-19993 Chain of Custody

3-21039.1

Page 1-1

Client Information	Sampler: Tony Rodriguez	Lab PM: Kudchadkar Sachin G	Job #:
Client Contact: Alison Schaffer	Phone: 432-559-5594	E-Mail: Sachin.Kudchadkar@Eurofin	
Company: ARCADIS U.S. Inc.			
Address: 630 Plaza Drive Suite 100	Due Date Requested:		
City: Highlands Ranch	TAT Requested (days): Standard		
State, Zip: CO, 80129-2377	PO #:		
Phone: 303-710-7537(Tel)	WO #:		
Email: Alison.Schaffer@arcadis.com	Project #: 86002103		
Project Name: Chevron Jal Land Farm Soils	SSOW#:		
Site:			

Temp: 2.0 IR ID:HOU-323
C/F: +0.2
Corrected Temp: 2.2

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B- Volatiles	8270C- Semivolatiles/ 8081 Pesticides/ 8082 PCB	6860 Perchlorate-Ddenver- soil jar 4 oz	8330B Denver soil jar 4 oz	PFC Denver- plastic 16 oz jar	8270D_AgChem -Pensacola soil jar 4 oz	2540C_Calcd Local Method/ Moisture/ pH 9045	8015B_GRO	8015_DRO/ORO	GA-01_R_ra- Rad 226/228- St Louis- 2 plastic jars 10	9056- Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate; Fluoride	6020/7471- St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
Cell 21-Square 58-S-3-4-220128	1/28/22	0830	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
Cell 21-Square 88-S-3-4-220128	1/28/22	0910	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: Tony Rodriguez	Date/Time: 1/28/22	1700	Company: Arcadis	Received by:	Date/Time: 1/29/22	9:40	Company: Xenco
Relinquished by:	Date/Time:		Company	Received by:	Date/Time:		Company
Relinquished by:	Date/Time:		Company	Received by:	Date/Time:		Company

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

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Received by OCD: 9/12/2022 9:41:21 AM

Released to Imaging: 10/28/2022 10:00:56 AM

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9862.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19993-1
Address: 13715 Rider Trail North,	Due Date Requested: 2/17/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell21-Square58-5-3-4-220128 (860-19993-1)	1/28/22	08:30 Central		Solid			X	1	
Cell21-Square88-5-3-4-220128 (860-19993-2)	1/28/22	09:10 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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	11/31/22 1900	Xenco	FED EX		
2	FED EX			[signature]	FEB 01 2022 0915	ETA STL
3				Autumn R. Johnson		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9863.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19993-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/16/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell21-Square58-5-3-4-220128 (860-19993-1)	1/28/22	08:30 Central		Solid			X	X	X	3	
Cell21-Square88-5-3-4-220128 (860-19993-2)	1/28/22	09:10 Central		Solid			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 1/31/22 1900	Company Xenco	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: ∆ Yes ∆ No	Custody Seal No.:
	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9861.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19993-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/16/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C/TX_7Day_T	8260B/5030B_Solid (MOD) mod	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell21-Square58-5-3-4-220128 (860-19993-1)	1/28/22	08:30 Central		Solid			X	X	1	
Cell21-Square88-5-3-4-220128 (860-19993-2)	1/28/22	09:10 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	1/31/22 1900	Xenco	Caitlyn Forrester	02/01/2022 1110	EX
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.1 CG IR-13 0.8

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9874.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19993-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/16/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C/TX_7Day_T	8260B/5030B_Solid (MOD) mod	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell21-Square58-5-3-4-220128 (860-19993-1)	1/28/22	08:30 Central		Solid			X	X	1	
Cell21-Square88-5-3-4-220128 (860-19993-2)	1/28/22	09:10 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	2/1/22 1900	Xenco	[signature]	2-2-22 12:23	FEX
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: 3.7/3.6 IR-10 CF

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19993-1

Login Number: 19993 **List Source: Eurofins Houston**
List Number: 1
Creator: Torres, Sandra

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	2.2
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: 860-19993-1

Login Number: 19993 **List Source: Eurofins Corpus Christi**
List Number: 2 **List Creation: 02/01/22 12:01 PM**
Creator: Forrester, Caitlyn D

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.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19993-1

Login Number: 19993 **List Source: Eurofins Denver**
List Number: 4 **List Creation: 02/01/22 12:53 PM**
Creator: Rystrom, Joshua R

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	
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").	True	
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: 860-19993-1

Login Number: 19993 **List Source: Eurofins Pensacola**
List Number: 3 **List Creation: 02/01/22 01:46 PM**
Creator: Roberts, Alexis J

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	0.8°C IR9
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: 860-19993-1

Login Number: 19993 **List Source: Eurofins St. Louis**
List Number: 5 **List Creation: 02/01/22 04:03 PM**
Creator: Johnson, Autumn R

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	
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.	N/A	

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ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19995-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
2/28/2022 8:03:50 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

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

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

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

Laboratory Job ID: 860-19995-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Analyte was not detected at or above the SDL.

GC/MS Semi 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/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
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.

LCMS

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.

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	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.
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.
¤	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"

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19995-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19995-1

Receipt
The samples were received on 1/29/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C

GC/MS VOA
Method 8260B: The following analyte recovered outside control limits for the LCS associated with analytical batch 560-192728: Tetrachloroethene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been 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 following samples were diluted due to the nature of the sample matrix: Cell25-Square187-5-3-4-220128 (860-19995-1) and Cell25-Square32-5-3-4-220128 (860-19995-2). Elevated reporting limits (RLs) are provided.

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

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

PCBs
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 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell25-Square187-5-3-4-220128 (860-19995-1) and Cell25-Square32-5-3-4-220128 (860-19995-2) in preparation batch 280-565114 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following sample was air dried and sieved per the procedure; however, the sample contained material that would not pass through the sieve: Cell25-Square187-5-3-4-220128 (860-19995-1). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-565114 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell25-Square187-5-3-4-220128 (860-19995-1) and Cell25-Square32-5-3-4-220128 (860-19995-2) in preparation batch 280-565114 and 280-565273 by 8330B_Sonc_10g for 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.

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19995-1 (Continued)

Laboratory: Eurofins Houston (Continued)

Metals

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.

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-549566Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 AnalyteTh-234 Pa-234Th-234 U-238Pb-210 Po-210 Pb-210 Bi-210Cs-137 Ba-137mPb-212 Po-216Xe-131m Xe-131Sb-125 Te-125mAg-108m Ag-108Rh-106 Ru-106Pb-212 Th-228Pb-212 Ra-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. Cell25-Square187-5-3-4-220128 (860-19995-1), Cell25-Square32-5-3-4-220128 (860-19995-2), (LCS 160-549566/2-A), (MB 160-549566/1-A) and (860-19995-D-2-C DU)

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

Released to Imaging: 10/28/2022 10:00:56 AM

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square187-5-3-4-220128 Lab Sample ID: 860-19995-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	7.51		0.984	0.106	mg/Kg	1		9056A	Total/NA
Fluoride	2.54	J	4.92	0.984	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.644	J	0.984	0.0492	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	8.15		0.984	0.106	mg/Kg	1		9056A	Total/NA
Sulfate	88.6		9.84	4.25	mg/Kg	1		9056A	Total/NA
Arsenic	2.01	J	3.64	0.561	mg/Kg	10		6020A	Total/NA
Barium	139		3.64	0.315	mg/Kg	10		6020A	Total/NA
Beryllium	0.179	J	1.82	0.168	mg/Kg	10		6020A	Total/NA
Chromium	4.52		3.64	0.247	mg/Kg	10		6020A	Total/NA
Copper	1.72	J	3.64	0.237	mg/Kg	10		6020A	Total/NA
Iron	3280		18.2	2.13	mg/Kg	10		6020A	Total/NA
Manganese	30.6		1.82	0.231	mg/Kg	10		6020A	Total/NA
Lead	1.77	J	1.82	0.176	mg/Kg	10		6020A	Total/NA
Antimony	0.842	J	1.82	0.108	mg/Kg	10		6020A	Total/NA
Uranium	0.222	J	0.909	0.0543	mg/Kg	10		6020A	Total/NA
Zinc	9.97		3.64	0.402	mg/Kg	10		6020A	Total/NA
Mercury	0.00608	J	0.0196	0.00377	mg/Kg	1		7471A	Total/NA
pH	8.6	HF			SU	1		9045D	Soluble
Total Dissolved Solids	110		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell25-Square32-5-3-4-220128 Lab Sample ID: 860-19995-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.80	J	10.2	3.60	mg/Kg	1		9056A	Total/NA
Nitrate as N	3.40		1.02	0.110	mg/Kg	1		9056A	Total/NA
Fluoride	4.25	J	5.09	1.02	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.369	J	1.02	0.0509	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	3.77		1.02	0.110	mg/Kg	1		9056A	Total/NA
Sulfate	48.4		10.2	4.40	mg/Kg	1		9056A	Total/NA
Arsenic	2.93	J	3.57	0.551	mg/Kg	10		6020A	Total/NA
Barium	46.5		3.57	0.310	mg/Kg	10		6020A	Total/NA
Beryllium	0.467	J	1.79	0.165	mg/Kg	10		6020A	Total/NA
Chromium	10.3		3.57	0.242	mg/Kg	10		6020A	Total/NA
Copper	2.66	J	3.57	0.233	mg/Kg	10		6020A	Total/NA
Iron	8850		17.9	2.09	mg/Kg	10		6020A	Total/NA
Manganese	55.8		1.79	0.227	mg/Kg	10		6020A	Total/NA
Lead	4.86		1.79	0.173	mg/Kg	10		6020A	Total/NA
Antimony	0.493	J	1.79	0.106	mg/Kg	10		6020A	Total/NA
Uranium	0.196	J	0.893	0.0534	mg/Kg	10		6020A	Total/NA
Zinc	21.7		3.57	0.395	mg/Kg	10		6020A	Total/NA
Mercury	0.00696	J	0.0196	0.00377	mg/Kg	1		7471A	Total/NA
Cyanide, Total	42.0	J	59.7	29.6	ug/Kg	1		9012A	Total/NA
pH	8.2	HF			SU	1		9045D	Soluble
Total Dissolved Solids	96.0		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square187-5-3-4-220128 **Lab Sample ID: 860-19995-1**
Date Collected: 01/28/22 09:40 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.652	U	4.46	0.652	ug/Kg			02/01/22 16:15	1
Chloromethane	1.07	U	4.46	1.07	ug/Kg			02/01/22 16:15	1
Vinyl chloride	0.536	U	4.46	0.536	ug/Kg			02/01/22 16:15	1
Bromomethane	0.982	U	4.46	0.982	ug/Kg			02/01/22 16:15	1
Trichlorofluoromethane	0.446	U	4.46	0.446	ug/Kg			02/01/22 16:15	1
Acrolein	7.68	U	44.6	7.68	ug/Kg			02/01/22 16:15	1
1,1-Dichloroethene	0.446	U	4.46	0.446	ug/Kg			02/01/22 16:15	1
trans-1,2-Dichloroethene	0.446	U	4.46	0.446	ug/Kg			02/01/22 16:15	1
Methyl tert-butyl ether	0.545	U	4.46	0.545	ug/Kg			02/01/22 16:15	1
1,3-Dichlorobenzene	0.277	U	4.46	0.277	ug/Kg			02/01/22 16:15	1
Methylene Chloride	4.46	U	22.3	4.46	ug/Kg			02/01/22 16:15	1
Acrylonitrile	3.21	U	44.6	3.21	ug/Kg			02/01/22 16:15	1
cis-1,2-Dichloroethene	0.509	U	4.46	0.509	ug/Kg			02/01/22 16:15	1
Carbon tetrachloride	0.455	U	4.46	0.455	ug/Kg			02/01/22 16:15	1
Benzene	0.563	U	4.46	0.563	ug/Kg			02/01/22 16:15	1
1,2-Dichloroethane	0.464	U	4.46	0.464	ug/Kg			02/01/22 16:15	1
Trichloroethene	0.250	U	4.46	0.250	ug/Kg			02/01/22 16:15	1
1,1,1-Trichloroethane	0.446	U	4.46	0.446	ug/Kg			02/01/22 16:15	1
1,1-Dichloroethane	0.527	U	4.46	0.527	ug/Kg			02/01/22 16:15	1
1,2-Dichloropropane	0.446	U	4.46	0.446	ug/Kg			02/01/22 16:15	1
1,4-Dioxane	17.0	U	89.3	17.0	ug/Kg			02/01/22 16:15	1
Chloroform	0.777	U	4.46	0.777	ug/Kg			02/01/22 16:15	1
Bromodichloromethane	0.179	U	4.46	0.179	ug/Kg			02/01/22 16:15	1
1,1-Dichloropropene	0.464	U	4.46	0.464	ug/Kg			02/01/22 16:15	1
cis-1,3-Dichloropropene	0.402	U	4.46	0.402	ug/Kg			02/01/22 16:15	1
Toluene	0.804	U	4.46	0.804	ug/Kg			02/01/22 16:15	1
trans-1,3-Dichloropropene	0.464	U	4.46	0.464	ug/Kg			02/01/22 16:15	1
1,1,2-Trichloroethane	0.446	U	4.46	0.446	ug/Kg			02/01/22 16:15	1
Tetrachloroethene	0.661	U *	4.46	0.661	ug/Kg			02/01/22 16:15	1
1,3-Dichloropropene, Total	0.464	U	4.46	0.464	ug/Kg			02/01/22 16:15	1
1,2-Dibromoethane	0.268	U	4.46	0.268	ug/Kg			02/01/22 16:15	1
Monochlorobenzene	0.268	U	4.46	0.268	ug/Kg			02/01/22 16:15	1
Ethylbenzene	0.402	U	4.46	0.402	ug/Kg			02/01/22 16:15	1
Xylenes, Total	0.446	U	8.93	0.446	ug/Kg			02/01/22 16:15	1
Styrene	0.268	U	4.46	0.268	ug/Kg			02/01/22 16:15	1
Tribromomethane	0.455	U	4.46	0.455	ug/Kg			02/01/22 16:15	1
1,1,2,2-Tetrachloroethane	0.339	U	4.46	0.339	ug/Kg			02/01/22 16:15	1
1,4-Dichlorobenzene	0.286	U	4.46	0.286	ug/Kg			02/01/22 16:15	1
1,2-Dichlorobenzene	0.223	U	4.46	0.223	ug/Kg			02/01/22 16:15	1
1,2,4-Trichlorobenzene	0.866	U	4.46	0.866	ug/Kg			02/01/22 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*50 - 136*		*02/01/22 16:15*	*1*
4-Bromofluorobenzene (Surr)	*113*		*61 - 142*		*02/01/22 16:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 152*		*02/01/22 16:15*	*1*
Toluene-d8 (Surr)	*92*		*65 - 139*		*02/01/22 16:15*	*1*

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00253	U	0.00505	0.00253	mg/Kg		02/01/22 16:14	02/03/22 05:10	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square187-5-3-4-220128
Lab Sample ID: 860-19995-1
Date Collected: 01/28/22 09:40
Matrix: Solid
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*	*02/01/22 16:14*	*02/03/22 05:10*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.9	U	65.5	11.9	ug/Kg		02/10/22 13:33	02/14/22 23:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*85*		*30 - 164*	*02/10/22 13:33*	*02/14/22 23:30*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	174	U	1670	174	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
1,2,4,5-Tetrachlorobenzene	165	U	1670	165	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
1-Methylnaphthalene	267	U	1670	267	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
bis (2-chloroisopropyl) ether	178	U	1670	178	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
2,4,5-Trichlorophenol	190	U	1670	190	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
2,4,6-Trichlorophenol	157	U	1670	157	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
2,4-Dinitrotoluene	127	U	1670	127	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Dinitrophenols	242	U	3330	242	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
2,4-Dichlorophenol	174	U	1670	174	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
2,6-Dinitrotoluene	233	U	1670	233	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Dichlorobenzidine, 3,3'-	154	U	3330	154	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
4,6-Dinitro-2-methylphenol	127	U	3330	127	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Acenaphthene	155	U	1670	155	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Anthracene	138	U	1670	138	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Acenaphthylene	148	U	1670	148	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Benzo[a]anthracene	141	U	1670	141	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Benzo[b]fluoranthene	126	U	1670	126	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Benzo[k]fluoranthene	193	U	1670	193	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Benzo[g,h,i]perylene	153	U	1670	153	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Benzo[a]pyrene	172	U	1670	172	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Di (2-ethylhexyl)phthalate	1670	U	3330	1670	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Bis(2-chloroethyl)ether	152	U	1670	152	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Chrysene	165	U	1670	165	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Dibutylphthalate	160	U	1670	160	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Dibenz(a,h)anthracene	127	U	1670	127	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Diethyl phthalate	153	U	1670	153	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Dimethyl phthalate	159	U	1670	159	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Fluoranthene	147	U	1670	147	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Fluorene	138	U	1670	138	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Hexachlorobenzene	162	U	1670	162	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Hexachlorobutadiene	138	U	1670	138	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Hexachlorocyclopentadiene	152	U	1670	152	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Hexachloroethane	173	U	1670	173	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Indeno[1,2,3-cd]pyrene	134	U	1670	134	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Isophorone	145	U	1670	145	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
N-Nitrosodi-n-butylamine	252	U	1670	252	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
N-Nitrosodiethylamine	219	U	1670	219	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
N-Nitrosodiphenylamine	186	U	1670	186	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
N-Nitrosopyrrolidine	141	U	1670	141	ug/Kg		01/31/22 15:04	02/02/22 00:37	10

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square187-5-3-4-220128
Lab Sample ID: 860-19995-1
Date Collected: 01/28/22 09:40
Matrix: Solid
Date Received: 01/29/22 09:40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	159	U	1670	159	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Pentachlorophenol	121	U	3330	121	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Phenanthrene	166	U	1670	166	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Pyrene	146	U	1670	146	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Naphthalene	156	U	1670	156	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
2-Methylnaphthalene	451	U	1670	451	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Nitrobenzene	185	U	1670	185	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Benzidine	121	U	3330	121	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Phenol	0.150	U	3.33	0.150	mg/Kg		01/31/22 15:04	02/02/22 00:37	10
N-Nitrosodimethylamine	167	U	1670	167	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Atrazine	165	U	3330	165	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Thiophene, tetrahydro-, 1,1-dioxide	3330	U	3330	3330	ug/Kg		01/31/22 15:04	02/02/22 00:37	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*6.66*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 15:04*	*02/02/22 00:37*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*30 - 115*	*01/31/22 15:04*	*02/02/22 00:37*	*10*
2-Fluorophenol	*92*		*25 - 121*	*01/31/22 15:04*	*02/02/22 00:37*	*10*
2,4,6-Tribromophenol	*84*		*19 - 122*	*01/31/22 15:04*	*02/02/22 00:37*	*10*
Nitrobenzene-d5	*85*		*23 - 129*	*01/31/22 15:04*	*02/02/22 00:37*	*10*
Phenol-d5 (Surr)	*93*		*24 - 113*	*01/31/22 15:04*	*02/02/22 00:37*	*10*
p-Terphenyl-d14 (Surr)	*104*		*18 - 137*	*01/31/22 15:04*	*02/02/22 00:37*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.1	21.1	mg/Kg		02/03/22 13:11	02/03/22 17:03	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		02/03/22 13:11	02/03/22 17:03	1
OII Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		02/03/22 13:11	02/03/22 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*65 - 130*	*02/03/22 13:11*	*02/03/22 17:03*	*1*
o-Terphenyl (Surr)	*77*		*65 - 130*	*02/03/22 13:11*	*02/03/22 17:03*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.831	0.253	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Aldrin	0.362	U	0.831	0.362	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Hexachlorocyclohexane, alpha-	0.678	U	0.831	0.678	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Hexachlorocyclohexane, beta-	0.472	U	0.831	0.472	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Chlordane (technical)	23.8	U	41.6	23.8	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Hexachlorocyclohexane, delta-	0.831	U	0.831	0.831	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Dieldrin	0.169	U	0.831	0.169	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Endosulfan I	0.201	U	0.831	0.201	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Endosulfan II	0.371	U	0.831	0.371	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Endosulfan sulfate	0.275	U	0.831	0.275	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Endrin	0.290	U	0.831	0.290	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Endrin aldehyde	0.247	U	0.831	0.247	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Hexachlorocyclohexane, gamma-	0.438	U	0.831	0.438	ug/Kg		02/02/22 17:01	02/03/22 11:39	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square187-5-3-4-220128 **Lab Sample ID: 860-19995-1**
Date Collected: 01/28/22 09:40 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.831	0.561	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Heptachlor epoxide	0.244	U	0.831	0.244	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		02/02/22 17:01	02/03/22 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*35 - 135*	*02/02/22 17:01*	*02/03/22 11:39*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*25 - 143*	*02/02/22 17:01*	*02/03/22 11:39*	*1*

Method: 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		02/02/22 17:01	02/03/22 14:19	1
Aroclor 1221	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 14:19	1
Aroclor 1232	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 14:19	1
Aroclor 1242	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 14:19	1
Aroclor 1248	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 14:19	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		02/02/22 17:01	02/03/22 14:19	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		02/02/22 17:01	02/03/22 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*35 - 140*	*02/02/22 17:01*	*02/03/22 14:19*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*37 - 142*	*02/02/22 17:01*	*02/03/22 14:19*	*1*

Method: 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	0.0932	0.0212	mg/Kg		02/07/22 15:28	02/11/22 06:14	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0401	U	0.186	0.0401	mg/Kg		02/07/22 15:28	02/11/22 06:14	1
2,4,6-Trinitrotoluene	0.0286	U	0.0932	0.0286	mg/Kg		02/07/22 15:28	02/11/22 06:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*02/07/22 15:28*	*02/11/22 06:14*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.48	U	9.84	3.48	mg/Kg		02/01/22 20:44	02/03/22 02:48	1
Nitrate as N	**7.51**		0.984	0.106	mg/Kg		02/01/22 20:44	02/03/22 02:48	1
Fluoride	**2.54**	**J**	4.92	0.984	mg/Kg		02/01/22 20:44	02/03/22 02:48	1
Nitrite as N	**0.644**	**J**	0.984	0.0492	mg/Kg		02/01/22 20:44	02/03/22 02:48	1
Nitrate Nitrite as N	**8.15**		0.984	0.106	mg/Kg		02/01/22 20:44	02/03/22 02:48	1
Sulfate	**88.6**		9.84	4.25	mg/Kg		02/01/22 20:44	02/03/22 02:48	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0797	U	0.484	0.0797	ug/Kg		02/07/22 14:51	02/08/22 16:27	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.220	U	0.764	0.220	ug/Kg		02/07/22 10:31	02/16/22 10:55	1
Perfluorohexanesulfonic acid (PFHxS)	0.267	U	0.764	0.267	ug/Kg		02/07/22 10:31	02/16/22 10:55	1
Perfluorooctanesulfonic acid (PFOS)	0.134	U	0.764	0.134	ug/Kg		02/07/22 10:31	02/16/22 10:55	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square187-5-3-4-220128 **Lab Sample ID: 860-19995-1**
Date Collected: 01/28/22 09:40 **Matrix: Solid**
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	02/07/22 10:31	02/16/22 10:55	1
13C8 PFOS	103		70 - 130	02/07/22 10:31	02/16/22 10:55	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.144	U	1.82	0.144	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Arsenic	**2.01**	**J**	3.64	0.561	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Barium	**139**		3.64	0.315	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Beryllium	**0.179**	**J**	1.82	0.168	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Cadmium	0.105	U	1.82	0.105	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Chromium	**4.52**		3.64	0.247	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Copper	**1.72**	**J**	3.64	0.237	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Iron	**3280**		18.2	2.13	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Manganese	**30.6**		1.82	0.231	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Lead	**1.77**	**J**	1.82	0.176	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Antimony	**0.842**	**J**	1.82	0.108	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Selenium	0.451	U	1.82	0.451	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Thallium	0.217	U	1.82	0.217	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Uranium	**0.222**	**J**	0.909	0.0543	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Zinc	**9.97**		3.64	0.402	mg/Kg		02/04/22 11:08	02/07/22 19:50	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00608**	**J**	0.0196	0.00377	mg/Kg		02/01/22 08:30	02/01/22 12:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	28.6	U	57.6	28.6	ug/Kg		02/09/22 15:50	02/09/22 17:41	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 14:10	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**	**HF**			SU			02/14/22 14:32	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**110**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	**0.400**		0.125	0.134	1.00	0.114	pCi/g	02/07/22 11:13	02/28/22 07:40	1
Radium-228	**0.268**		0.215	0.218		0.250	pCi/g	02/07/22 11:13	02/28/22 07:40	1
Combined Radium 226 + 228	**0.667**		0.249	0.256		0.250	pCi/g	02/07/22 11:13	02/28/22 07:40	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square32-5-3-4-220128 **Lab Sample ID: 860-19995-2**
Date Collected: 01/28/22 10:06 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.666	U	4.56	0.666	ug/Kg			02/01/22 16:40	1
Chloromethane	1.09	U	4.56	1.09	ug/Kg			02/01/22 16:40	1
Vinyl chloride	0.547	U	4.56	0.547	ug/Kg			02/01/22 16:40	1
Bromomethane	1.00	U	4.56	1.00	ug/Kg			02/01/22 16:40	1
Trichlorofluoromethane	0.456	U	4.56	0.456	ug/Kg			02/01/22 16:40	1
Acrolein	7.85	U	45.6	7.85	ug/Kg			02/01/22 16:40	1
1,1-Dichloroethene	0.456	U	4.56	0.456	ug/Kg			02/01/22 16:40	1
trans-1,2-Dichloroethene	0.456	U	4.56	0.456	ug/Kg			02/01/22 16:40	1
Methyl tert-butyl ether	0.557	U	4.56	0.557	ug/Kg			02/01/22 16:40	1
1,3-Dichlorobenzene	0.283	U	4.56	0.283	ug/Kg			02/01/22 16:40	1
Methylene Chloride	4.56	U	22.8	4.56	ug/Kg			02/01/22 16:40	1
Acrylonitrile	3.28	U	45.6	3.28	ug/Kg			02/01/22 16:40	1
cis-1,2-Dichloroethene	0.520	U	4.56	0.520	ug/Kg			02/01/22 16:40	1
Carbon tetrachloride	0.465	U	4.56	0.465	ug/Kg			02/01/22 16:40	1
Benzene	0.575	U	4.56	0.575	ug/Kg			02/01/22 16:40	1
1,2-Dichloroethane	0.474	U	4.56	0.474	ug/Kg			02/01/22 16:40	1
Trichloroethene	0.255	U	4.56	0.255	ug/Kg			02/01/22 16:40	1
1,1,1-Trichloroethane	0.456	U	4.56	0.456	ug/Kg			02/01/22 16:40	1
1,1-Dichloroethane	0.538	U	4.56	0.538	ug/Kg			02/01/22 16:40	1
1,2-Dichloropropane	0.456	U	4.56	0.456	ug/Kg			02/01/22 16:40	1
1,4-Dioxane	17.3	U	91.2	17.3	ug/Kg			02/01/22 16:40	1
Chloroform	0.794	U	4.56	0.794	ug/Kg			02/01/22 16:40	1
Bromodichloromethane	0.182	U	4.56	0.182	ug/Kg			02/01/22 16:40	1
1,1-Dichloropropene	0.474	U	4.56	0.474	ug/Kg			02/01/22 16:40	1
cis-1,3-Dichloropropene	0.411	U	4.56	0.411	ug/Kg			02/01/22 16:40	1
Toluene	0.821	U	4.56	0.821	ug/Kg			02/01/22 16:40	1
trans-1,3-Dichloropropene	0.474	U	4.56	0.474	ug/Kg			02/01/22 16:40	1
1,1,2-Trichloroethane	0.456	U	4.56	0.456	ug/Kg			02/01/22 16:40	1
Tetrachloroethene	0.675	U *	4.56	0.675	ug/Kg			02/01/22 16:40	1
1,3-Dichloropropene, Total	0.474	U	4.56	0.474	ug/Kg			02/01/22 16:40	1
1,2-Dibromoethane	0.274	U	4.56	0.274	ug/Kg			02/01/22 16:40	1
Monochlorobenzene	0.274	U	4.56	0.274	ug/Kg			02/01/22 16:40	1
Ethylbenzene	0.411	U	4.56	0.411	ug/Kg			02/01/22 16:40	1
Xylenes, Total	0.456	U	9.12	0.456	ug/Kg			02/01/22 16:40	1
Styrene	0.274	U	4.56	0.274	ug/Kg			02/01/22 16:40	1
Tribromomethane	0.465	U	4.56	0.465	ug/Kg			02/01/22 16:40	1
1,1,2,2-Tetrachloroethane	0.347	U	4.56	0.347	ug/Kg			02/01/22 16:40	1
1,4-Dichlorobenzene	0.292	U	4.56	0.292	ug/Kg			02/01/22 16:40	1
1,2-Dichlorobenzene	0.228	U	4.56	0.228	ug/Kg			02/01/22 16:40	1
1,2,4-Trichlorobenzene	0.885	U	4.56	0.885	ug/Kg			02/01/22 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*50 - 136*		*02/01/22 16:40*	*1*
4-Bromofluorobenzene (Surr)	*110*		*61 - 142*		*02/01/22 16:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 152*		*02/01/22 16:40*	*1*
Toluene-d8 (Surr)	*93*		*65 - 139*		*02/01/22 16:40*	*1*

Method: 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	0.00495	0.00248	mg/Kg		02/01/22 16:14	02/03/22 05:31	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square32-5-3-4-220128
Lab Sample ID: 860-19995-2
Date Collected: 01/28/22 10:06
Matrix: Solid
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*	*02/01/22 16:14*	*02/03/22 05:31*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.8	U	65.0	11.8	ug/Kg		02/10/22 13:33	02/14/22 23:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*78*		*30 - 164*	*02/10/22 13:33*	*02/14/22 23:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	170	U	1630	170	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
1,2,4,5-Tetrachlorobenzene	161	U	1630	161	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
1-Methylnaphthalene	262	U	1630	262	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
bis (2-chloroisopropyl) ether	174	U	1630	174	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
2,4,5-Trichlorophenol	187	U	1630	187	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
2,4,6-Trichlorophenol	154	U	1630	154	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
2,4-Dinitrotoluene	125	U	1630	125	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Dinitrophenols	237	U	3270	237	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
2,4-Dichlorophenol	171	U	1630	171	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
2,6-Dinitrotoluene	228	U	1630	228	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Dichlorobenzidine, 3,3'-	151	U	3270	151	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
4,6-Dinitro-2-methylphenol	125	U	3270	125	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Acenaphthene	152	U	1630	152	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Anthracene	135	U	1630	135	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Acenaphthylene	145	U	1630	145	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Benzo[a]anthracene	138	U	1630	138	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Benzo[b]fluoranthene	123	U	1630	123	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Benzo[k]fluoranthene	190	U	1630	190	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Benzo[g,h,i]perylene	150	U	1630	150	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Benzo[a]pyrene	169	U	1630	169	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Di (2-ethylhexyl)phthalate	1630	U	3270	1630	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Bis(2-chloroethyl)ether	149	U	1630	149	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Chrysene	162	U	1630	162	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Dibutylphthalate	157	U	1630	157	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Dibenz(a,h)anthracene	124	U	1630	124	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Diethyl phthalate	150	U	1630	150	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Dimethyl phthalate	156	U	1630	156	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Fluoranthene	144	U	1630	144	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Fluorene	136	U	1630	136	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Hexachlorobenzene	159	U	1630	159	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Hexachlorobutadiene	136	U	1630	136	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Hexachlorocyclopentadiene	149	U	1630	149	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Hexachloroethane	169	U	1630	169	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Indeno[1,2,3-cd]pyrene	132	U	1630	132	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Isophorone	142	U	1630	142	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
N-Nitrosodi-n-butylamine	247	U	1630	247	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
N-Nitrosodiethylamine	215	U	1630	215	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
N-Nitrosodiphenylamine	182	U	1630	182	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
N-Nitrosopyrrolidine	138	U	1630	138	ug/Kg		01/31/22 15:04	02/02/22 01:01	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square32-5-3-4-220128 **Lab Sample ID: 860-19995-2**
Date Collected: 01/28/22 10:06 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	156	U	1630	156	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Pentachlorophenol	119	U	3270	119	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Phenanthrene	162	U	1630	162	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Pyrene	143	U	1630	143	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Naphthalene	153	U	1630	153	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
2-Methylnaphthalene	443	U	1630	443	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Nitrobenzene	181	U	1630	181	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Benzidine	119	U	3270	119	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Phenol	0.147	U	3.27	0.147	mg/Kg		01/31/22 15:04	02/02/22 01:01	10
N-Nitrosodimethylamine	164	U	1630	164	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Atrazine	162	U	3270	162	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Thiophene, tetrahydro-, 1,1-dioxide	3260	U	3270	3260	ug/Kg		01/31/22 15:04	02/02/22 01:01	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*6.53*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 15:04*	*02/02/22 01:01*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*96*		*30 - 115*	*01/31/22 15:04*	*02/02/22 01:01*	*10*
2-Fluorophenol	*89*		*25 - 121*	*01/31/22 15:04*	*02/02/22 01:01*	*10*
2,4,6-Tribromophenol	*76*		*19 - 122*	*01/31/22 15:04*	*02/02/22 01:01*	*10*
Nitrobenzene-d5	*81*		*23 - 129*	*01/31/22 15:04*	*02/02/22 01:01*	*10*
Phenol-d5 (Surr)	*85*		*24 - 113*	*01/31/22 15:04*	*02/02/22 01:01*	*10*
p-Terphenyl-d14 (Surr)	*98*		*18 - 137*	*01/31/22 15:04*	*02/02/22 01:01*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 17:43	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 17:43	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*65 - 130*	*02/03/22 13:11*	*02/03/22 17:43*	*1*
o-Terphenyl (Surr)	*78*		*65 - 130*	*02/03/22 13:11*	*02/03/22 17:43*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.830	0.253	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Aldrin	0.361	U	0.830	0.361	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Hexachlorocyclohexane, alpha-	0.677	U	0.830	0.677	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Hexachlorocyclohexane, beta-	0.472	U	0.830	0.472	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Chlordane (technical)	23.8	U	41.5	23.8	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Hexachlorocyclohexane, delta-	0.830	U	0.830	0.830	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Dieldrin	0.169	U	0.830	0.169	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Endosulfan I	0.201	U	0.830	0.201	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Endosulfan II	0.371	U	0.830	0.371	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Endosulfan sulfate	0.275	U	0.830	0.275	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Endrin	0.290	U	0.830	0.290	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Endrin aldehyde	0.246	U	0.830	0.246	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Hexachlorocyclohexane, gamma-	0.437	U	0.830	0.437	ug/Kg		02/02/22 17:01	02/03/22 11:53	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square32-5-3-4-220128 **Lab Sample ID: 860-19995-2**
Date Collected: 01/28/22 10:06 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.560	U	0.830	0.560	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Heptachlor epoxide	0.244	U	0.830	0.244	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		02/02/22 17:01	02/03/22 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*35 - 135*	*02/02/22 17:01*	*02/03/22 11:53*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*25 - 143*	*02/02/22 17:01*	*02/03/22 11:53*	*1*

Method: 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		02/02/22 17:01	02/03/22 14:29	1
Aroclor 1221	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 14:29	1
Aroclor 1232	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 14:29	1
Aroclor 1242	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 14:29	1
Aroclor 1248	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 14:29	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		02/02/22 17:01	02/03/22 14:29	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		02/02/22 17:01	02/03/22 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*35 - 140*	*02/02/22 17:01*	*02/03/22 14:29*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 142*	*02/02/22 17:01*	*02/03/22 14:29*	*1*

Method: 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	0.0224	U	0.0986	0.0224	mg/Kg		02/07/22 15:28	02/11/22 06:37	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0424	U	0.197	0.0424	mg/Kg		02/07/22 15:28	02/11/22 06:37	1
2,4,6-Trinitrotoluene	0.0303	U	0.0986	0.0303	mg/Kg		02/07/22 15:28	02/11/22 06:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*02/07/22 15:28*	*02/11/22 06:37*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.80**	**J**	10.2	3.60	mg/Kg		02/01/22 20:44	02/03/22 03:00	1
Nitrate as N	**3.40**		1.02	0.110	mg/Kg		02/01/22 20:44	02/03/22 03:00	1
Fluoride	**4.25**	**J**	5.09	1.02	mg/Kg		02/01/22 20:44	02/03/22 03:00	1
Nitrite as N	**0.369**	**J**	1.02	0.0509	mg/Kg		02/01/22 20:44	02/03/22 03:00	1
Nitrate Nitrite as N	**3.77**		1.02	0.110	mg/Kg		02/01/22 20:44	02/03/22 03:00	1
Sulfate	**48.4**		10.2	4.40	mg/Kg		02/01/22 20:44	02/03/22 03:00	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0805	U	0.488	0.0805	ug/Kg		02/07/22 14:51	02/08/22 16:32	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.223	U	0.777	0.223	ug/Kg		02/07/22 10:31	02/16/22 11:03	1
Perfluorohexanesulfonic acid (PFHxS)	0.272	U	0.777	0.272	ug/Kg		02/07/22 10:31	02/16/22 11:03	1
Perfluorooctanesulfonic acid (PFOS)	0.136	U	0.777	0.136	ug/Kg		02/07/22 10:31	02/16/22 11:03	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square32-5-3-4-220128 **Lab Sample ID: 860-19995-2**
Date Collected: 01/28/22 10:06 **Matrix: Solid**
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	02/07/22 10:31	02/16/22 11:03	1
13C8 PFOS	106		70 - 130	02/07/22 10:31	02/16/22 11:03	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.142	U	1.79	0.142	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Arsenic	**2.93**	**J**	3.57	0.551	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Barium	**46.5**		3.57	0.310	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Beryllium	**0.467**	**J**	1.79	0.165	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Cadmium	0.104	U	1.79	0.104	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Chromium	**10.3**		3.57	0.242	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Copper	**2.66**	**J**	3.57	0.233	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Iron	**8850**		17.9	2.09	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Manganese	**55.8**		1.79	0.227	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Lead	**4.86**		1.79	0.173	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Antimony	**0.493**	**J**	1.79	0.106	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Selenium	0.443	U	1.79	0.443	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Thallium	0.213	U	1.79	0.213	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Uranium	**0.196**	**J**	0.893	0.0534	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Zinc	**21.7**		3.57	0.395	mg/Kg		02/04/22 11:08	02/07/22 19:53	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00696**	**J**	0.0196	0.00377	mg/Kg		02/01/22 08:30	02/01/22 12:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**42.0**	**J**	59.7	29.6	ug/Kg		02/09/22 15:50	02/09/22 17:45	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 14:13	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.2**	**HF**			SU			02/14/22 14:32	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**96.0**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	**0.522**		0.167	0.178	1.00	0.140	pCi/g	02/07/22 11:13	02/28/22 07:39	1
Radium-228	**0.642**		0.281	0.291		0.249	pCi/g	02/07/22 11:13	02/28/22 07:39	1
Combined Radium 226 + 228	**1.16**		0.327	0.341		0.249	pCi/g	02/07/22 11:13	02/28/22 07:39	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DBFM	BFB	DCA	TOL
Lab Sample ID	Client Sample ID	(50-136)	(61-142)	(65-152)	(65-139)
860-19995-1	Cell25-Square187-5-3-4-220128	98	113	101	92
860-19995-2	Cell25-Square32-5-3-4-220128	98	110	101	93
LCS 560-192728/3	Lab Control Sample	97	117	94	96
LCSD 560-192728/4	Lab Control Sample Dup	98	116	96	95
MB 560-192728/7	Method Blank	97	109	99	93

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCA
Lab Sample ID	Client Sample ID	(63-144)
860-19995-1	Cell25-Square187-5-3-4-220128	99
860-19995-2	Cell25-Square32-5-3-4-220128	100
LCS 860-40051/11	Lab Control Sample	101
LCSD 860-40051/12	Lab Control Sample Dup	102
MB 860-40051/16	Method Blank	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19995-1	Cell25-Square187-5-3-4-220128	85
860-19995-2	Cell25-Square32-5-3-4-220128	78
LCS 400-566137/2-A	Lab Control Sample	98
MB 400-566137/1-A	Method Blank	95

Surrogate Legend

TPP = Triphenylphosphate

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(30-115)	(25-121)	(19-122)	(23-129)	(24-113)	(18-137)
860-19995-1	Cell25-Square187-5-3-4-220128	100	92	84	85	93	104
860-19995-2	Cell25-Square32-5-3-4-220128	96	89	76	81	85	98
LCS 860-39639/2-A	Lab Control Sample	75	79	85	77	80	82
LCSD 860-39639/3-A	Lab Control Sample Dup	82	87	89	84	86	85
MB 860-39639/1-A	Method Blank	88	93	85	86	89	98

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(65-130)	(65-130)								
860-19995-1	Cell25-Square187-5-3-4-220128	89	77								
860-19995-2	Cell25-Square32-5-3-4-220128	89	78								
LCS 860-40168/2-A	Lab Control Sample	90	83								
LCSD 860-40168/3-A	Lab Control Sample Dup	88	83								
MB 860-40168/1-A	Method Blank	93	82								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	DCB1								
Lab Sample ID	Client Sample ID	(35-135)	(25-143)								
860-19995-1	Cell25-Square187-5-3-4-220128	78	77								
860-19995-1 MS	Cell25-Square187-5-3-4-220128	71	76								
860-19995-1 MSD	Cell25-Square187-5-3-4-220128	62	76								
860-19995-2	Cell25-Square32-5-3-4-220128	67	79								
LCS 860-40042/2-A	Lab Control Sample	80	98								
LCSD 860-40042/3-A	Lab Control Sample Dup	81	97								
MB 860-40042/1-A	Method Blank	74	97								

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)									
		TCX1	DCB1								
Lab Sample ID	Client Sample ID	(35-140)	(37-142)								
860-19995-1	Cell25-Square187-5-3-4-220128	72	87								
860-19995-2	Cell25-Square32-5-3-4-220128	63	81								
LCS 860-40042/14-A	Lab Control Sample	81	87								
LCSD 860-40042/15-A	Lab Control Sample Dup	79	83								
MB 860-40042/1-A	Method Blank	73	81								

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

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)							
860-19995-1	Cell25-Square187-5-3-4-220128	106							
860-19995-2	Cell25-Square32-5-3-4-220128	106							
LCS 280-565273/2-A	Lab Control Sample	104							
MB 280-565273/1-A	Method Blank	106							

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)						
860-19995-1	Cell25-Square187-5-3-4-220128	103	103						
860-19995-2	Cell25-Square32-5-3-4-220128	104	106						
DLCK 280-556129/13	Lab Control Sample	98	105						
LCS 280-565221/2-A	Lab Control Sample	103	109						
MB 280-565221/1-A	Method Blank	104	104						

Surrogate Legend

C8PFOA = 13C8 PFOA

C8PFOS = 13C8 PFOS

QC Sample Results

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

Job ID: 860-19995-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192728/7
Matrix: Solid
Analysis Batch: 192728

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			02/01/22 12:08	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			02/01/22 12:08	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			02/01/22 12:08	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			02/01/22 12:08	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			02/01/22 12:08	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			02/01/22 12:08	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			02/01/22 12:08	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			02/01/22 12:08	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			02/01/22 12:08	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			02/01/22 12:08	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			02/01/22 12:08	1
Benzene	0.630	U	5.00	0.630	ug/Kg			02/01/22 12:08	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			02/01/22 12:08	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			02/01/22 12:08	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			02/01/22 12:08	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			02/01/22 12:08	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			02/01/22 12:08	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			02/01/22 12:08	1
Toluene	0.900	U	5.00	0.900	ug/Kg			02/01/22 12:08	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			02/01/22 12:08	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			02/01/22 12:08	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			02/01/22 12:08	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			02/01/22 12:08	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			02/01/22 12:08	1
Styrene	0.300	U	5.00	0.300	ug/Kg			02/01/22 12:08	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			02/01/22 12:08	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			02/01/22 12:08	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			02/01/22 12:08	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			02/01/22 12:08	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			02/01/22 12:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*50 - 136*		*02/01/22 12:08*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*02/01/22 12:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*65 - 152*		*02/01/22 12:08*	*1*
Toluene-d8 (Surr)	*93*		*65 - 139*		*02/01/22 12:08*	*1*

QC Sample Results

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

Job ID: 860-19995-1

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

Lab Sample ID: LCS 560-192728/3
Matrix: Solid
Analysis Batch: 192728

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	27.81		ug/Kg		70	13 - 130
Chloromethane	40.0	28.56		ug/Kg		71	61 - 137
Vinyl chloride	40.0	30.74		ug/Kg		77	65 - 139
Bromomethane	40.0	30.04		ug/Kg		75	57 - 155
Trichlorofluoromethane	40.0	31.28		ug/Kg		78	68 - 146
Acrolein	395	349.8		ug/Kg		89	20 - 150
1,1-Dichloroethene	40.0	33.11		ug/Kg		83	70 - 130
trans-1,2-Dichloroethene	40.0	33.40		ug/Kg		84	70 - 132
Methyl tert-butyl ether	40.0	33.60		ug/Kg		84	70 - 130
1,3-Dichlorobenzene	40.0	33.01		ug/Kg		83	70 - 130
Methylene Chloride	40.0	34.04		ug/Kg		85	61 - 150
Acrylonitrile	400	333.9		ug/Kg		83	66 - 137
cis-1,2-Dichloroethene	40.0	33.88		ug/Kg		85	70 - 130
Carbon tetrachloride	40.0	30.63		ug/Kg		77	70 - 136
Benzene	40.0	33.74		ug/Kg		84	70 - 131
1,2-Dichloroethane	40.0	29.88		ug/Kg		75	70 - 130
Trichloroethene	40.0	31.51		ug/Kg		79	70 - 130
1,1,1-Trichloroethane	40.0	31.67		ug/Kg		79	70 - 132
1,1-Dichloroethane	40.0	32.61		ug/Kg		82	70 - 130
1,2-Dichloropropane	40.0	34.10		ug/Kg		85	70 - 130
1,4-Dioxane	800	661.1		ug/Kg		83	10 - 150
Chloroform	40.0	31.62		ug/Kg		79	70 - 130
Bromodichloromethane	40.0	32.99		ug/Kg		82	70 - 130
1,1-Dichloropropene	40.0	35.04		ug/Kg		88	70 - 130
cis-1,3-Dichloropropene	40.0	30.48		ug/Kg		76	70 - 130
Toluene	40.0	30.62		ug/Kg		77	70 - 130
trans-1,3-Dichloropropene	40.0	31.78		ug/Kg		79	70 - 131
1,1,2-Trichloroethane	40.0	31.02		ug/Kg		78	70 - 130
Tetrachloroethene	40.0	26.38	*	ug/Kg		66	70 - 130
1,3-Dichloropropene, Total	80.0	62.26		ug/Kg		78	
1,2-Dibromoethane	40.0	29.65		ug/Kg		74	70 - 130
Monochlorobenzene	40.0	29.60		ug/Kg		74	70 - 130
Ethylbenzene	40.0	32.94		ug/Kg		82	70 - 130
Xylenes, Total	80.0	68.53		ug/Kg		86	70 - 130
Styrene	40.0	33.32		ug/Kg		83	70 - 130
Tribromomethane	40.0	26.32		ug/Kg		66	59 - 137
1,1,2,2-Tetrachloroethane	40.0	35.87		ug/Kg		90	70 - 130
1,4-Dichlorobenzene	40.0	31.78		ug/Kg		79	70 - 130
1,2-Dichlorobenzene	40.0	33.18		ug/Kg		83	70 - 130
1,2,4-Trichlorobenzene	40.0	35.30		ug/Kg		88	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*50 - 136*
4-Bromofluorobenzene (Surr)	*117*		*61 - 142*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*96*		*65 - 139*

QC Sample Results

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

Job ID: 860-19995-1

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

Lab Sample ID: LCSD 560-192728/4
Matrix: Solid
Analysis Batch: 192728

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
Dichlorodifluoromethane			40.0	29.94		ug/Kg		75	13 - 130	7	30.0
Chloromethane			40.0	31.79		ug/Kg		79	61 - 137	11	30.0
Vinyl chloride			40.0	34.81		ug/Kg		87	65 - 139	12	30.0
Bromomethane			40.0	34.71		ug/Kg		87	57 - 155	14	30.0
Trichlorofluoromethane			40.0	36.85		ug/Kg		92	68 - 146	16	30.0
Acrolein			395	418.2		ug/Kg		106	20 - 150	18	30.0
1,1-Dichloroethene			40.0	39.62		ug/Kg		99	70 - 130	18	30.0
trans-1,2-Dichloroethene			40.0	39.09		ug/Kg		98	70 - 132	16	30.0
Methyl tert-butyl ether			40.0	40.41		ug/Kg		101	70 - 130	18	30.0
1,3-Dichlorobenzene			40.0	37.58		ug/Kg		94	70 - 130	13	30.0
Methylene Chloride			40.0	39.98		ug/Kg		100	61 - 150	16	30.0
Acrylonitrile			400	401.8		ug/Kg		100	66 - 137	18	30.0
cis-1,2-Dichloroethene			40.0	39.65		ug/Kg		99	70 - 130	16	30.0
Carbon tetrachloride			40.0	35.76		ug/Kg		89	70 - 136	15	30.0
Benzene			40.0	39.78		ug/Kg		99	70 - 131	16	30.0
1,2-Dichloroethane			40.0	35.30		ug/Kg		88	70 - 130	17	30.0
Trichloroethene			40.0	37.56		ug/Kg		94	70 - 130	18	30.0
1,1,1-Trichloroethane			40.0	35.61		ug/Kg		89	70 - 132	12	30.0
1,1-Dichloroethane			40.0	38.37		ug/Kg		96	70 - 130	16	30.0
1,2-Dichloropropane			40.0	40.38		ug/Kg		101	70 - 130	17	30.0
1,4-Dioxane			800	881.6		ug/Kg		110	10 - 150	29	30.0
Chloroform			40.0	36.89		ug/Kg		92	70 - 130	15	30.0
Bromodichloromethane			40.0	39.29		ug/Kg		98	70 - 130	17	30.0
1,1-Dichloropropene			40.0	40.73		ug/Kg		102	70 - 130	15	30.0
cis-1,3-Dichloropropene			40.0	35.87		ug/Kg		90	70 - 130	16	30.0
Toluene			40.0	35.67		ug/Kg		89	70 - 130	15	30.0
trans-1,3-Dichloropropene			40.0	38.22		ug/Kg		96	70 - 131	18	30.0
1,1,2-Trichloroethane			40.0	37.05		ug/Kg		93	70 - 130	18	30.0
Tetrachloroethene			40.0	29.91		ug/Kg		75	70 - 130	13	30.0
1,3-Dichloropropene, Total			80.0	74.09		ug/Kg		93		17	30
1,2-Dibromoethane			40.0	36.02		ug/Kg		90	70 - 130	19	30.0
Monochlorobenzene			40.0	34.31		ug/Kg		86	70 - 130	15	30.0
Ethylbenzene			40.0	38.55		ug/Kg		96	70 - 130	16	30.0
Xylenes, Total			80.0	80.97		ug/Kg		101	70 - 130	17	30.0
Styrene			40.0	39.35		ug/Kg		98	70 - 130	17	30.0
Tribromomethane			40.0	31.27		ug/Kg		78	59 - 137	17	30.0
1,1,2,2-Tetrachloroethane			40.0	41.83		ug/Kg		105	70 - 130	15	30.0
1,4-Dichlorobenzene			40.0	36.37		ug/Kg		91	70 - 130	13	30.0
1,2-Dichlorobenzene			40.0	37.66		ug/Kg		94	70 - 130	13	30.0
1,2,4-Trichlorobenzene			40.0	38.56		ug/Kg		96	68 - 140	9	30.0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*
1,2-Dichloroethane-d4 (Surr)	*96*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-40051/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

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			02/03/22 00:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*02/03/22 00:47*	*1*

Lab Sample ID: LCS 860-40051/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.05356		mg/Kg		107	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*

Lab Sample ID: LCSD 860-40051/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.05670		mg/Kg		113	65 - 135	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-566137/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/10/22 13:25	02/14/22 17:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*95*		*30 - 164*	*02/10/22 13:25*	*02/14/22 17:25*	*1*

Lab Sample ID: LCS 400-566137/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	313.3		ug/Kg		94	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*98*		*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39639/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

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		01/31/22 15:04	02/01/22 21:02	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/31/22 15:04	02/01/22 21:02	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39639/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/31/22 15:04	02/01/22 21:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*30 - 115*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
2-Fluorophenol	*93*		*25 - 121*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
2,4,6-Tribromophenol	*85*		*19 - 122*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
Nitrobenzene-d5	*86*		*23 - 129*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
Phenol-d5 (Surr)	*89*		*24 - 113*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
p-Terphenyl-d14 (Surr)	*98*		*18 - 137*	*01/31/22 15:04*	*02/01/22 21:02*	*1*

Lab Sample ID: LCS 860-39639/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	874.6		ug/Kg		66	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	808.2		ug/Kg		61	35 - 135
1-Methylnaphthalene	1330	816.4		ug/Kg		61	38 - 127
bis (2-chloroisopropyl) ether	1330	779.8		ug/Kg		58	25 - 124
2,4,5-Trichlorophenol	1330	927.5		ug/Kg		70	40 - 135
2,4,6-Trichlorophenol	1330	892.7		ug/Kg		67	39 - 139
2,4-Dinitrotoluene	1330	853.2		ug/Kg		64	48 - 131
Dinitrophenols	1330	850.2		ug/Kg		64	19 - 131
2,4-Dichlorophenol	1330	894.4		ug/Kg		67	36 - 135
2,6-Dinitrotoluene	1330	949.9		ug/Kg		71	42 - 136
Dichlorobenzidine, 3,3'-	1330	738.8		ug/Kg		55	35 - 134
4,6-Dinitro-2-methylphenol	1330	859.4		ug/Kg		64	30 - 146
Acenaphthene	1330	809.3		ug/Kg		61	37 - 131
Anthracene	1330	891.3		ug/Kg		67	39 - 139
Acenaphthylene	1330	846.2		ug/Kg		63	39 - 129
Benzo[a]anthracene	1330	850.8		ug/Kg		64	44 - 135
Benzo[b]fluoranthene	1330	903.2		ug/Kg		68	40 - 153
Benzo[k]fluoranthene	1330	929.8		ug/Kg		70	33 - 156
Benzo[g,h,i]perylene	1330	950.8		ug/Kg		71	40 - 153
Benzo[a]pyrene	1330	968.4		ug/Kg		73	43 - 153
Di (2-ethylhexyl)phthalate	1330	813.5		ug/Kg		61	46 - 145
Bis(2-chloroethyl)ether	1330	782.9		ug/Kg		59	33 - 127
Chrysene	1330	829.6		ug/Kg		62	42 - 135
Dibutylphthalate	1330	989.1		ug/Kg		74	43 - 142
Dibenz(a,h)anthracene	1330	938.2		ug/Kg		70	41 - 155
Diethyl phthalate	1330	880.2		ug/Kg		66	45 - 131
Dimethyl phthalate	1330	852.7		ug/Kg		64	43 - 132
Fluoranthene	1330	919.1		ug/Kg		69	41 - 138
Fluorene	1330	841.1		ug/Kg		63	41 - 131
Hexachlorobenzene	1330	850.7		ug/Kg		64	36 - 142
Hexachlorobutadiene	1330	790.6		ug/Kg		59	35 - 129

QC Sample Results

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

Job ID: 860-19995-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39639/2-A
Matrix: Solid
Analysis Batch: 39861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39639

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hexachlorocyclopentadiene			1330	840.4		ug/Kg		63	16 - 106		
Hexachloroethane			1330	803.1		ug/Kg		60	36 - 121		
Indeno[1,2,3-cd]pyrene			1330	953.5		ug/Kg		72	39 - 154		
Isophorone			1330	832.7		ug/Kg		62	36 - 128		
N-Nitrosodi-n-butylamine			1330	1004		ug/Kg		75	34 - 135		
N-Nitrosodiethylamine			1330	829.3		ug/Kg		62	36 - 127		
N-Nitrosodiphenylamine			1330	882.4		ug/Kg		66	27 - 155		
N-Nitrosopyrrolidine			1330	891.2		ug/Kg		67	38 - 136		
Pentachlorobenzene			1330	839.4		ug/Kg		63	38 - 136		
Pentachlorophenol			1330	805.8		ug/Kg		60	14 - 148		
Phenanthrene			1330	838.2		ug/Kg		63	37 - 139		
Pyrene			1330	871.8		ug/Kg		65	42 - 138		
Naphthalene			1330	791.0		ug/Kg		59	35 - 128		
2-Methylnaphthalene			1330	822.6		ug/Kg		62	36 - 126		
Nitrobenzene			1330	829.2		ug/Kg		62	32 - 129		
Benzidine			1330	364.8		ug/Kg		27	12 - 112		
Phenol			1.33	0.8518		mg/Kg		64	34 - 127		
N-Nitrosodimethylamine			1330	792.4		ug/Kg		59	27 - 126		
Atrazine			1330	1094		ug/Kg		82	18 - 134		
Thiophene, tetrahydro-, 1,1-dioxide			1330	774.2		ug/Kg		58	30 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*30 - 115*
2-Fluorophenol	*79*		*25 - 121*
2,4,6-Tribromophenol	*85*		*19 - 122*
Nitrobenzene-d5	*77*		*23 - 129*
Phenol-d5 (Surr)	*80*		*24 - 113*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*

Lab Sample ID: LCSD 860-39639/3-A
Matrix: Solid
Analysis Batch: 39861

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39639

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)			1330	959.6		ug/Kg		72	20 - 157	9	30
1,2,4,5-Tetrachlorobenzene			1330	897.1		ug/Kg		67	35 - 135	10	30
1-Methylnaphthalene			1330	888.9		ug/Kg		67	38 - 127	9	30
bis (2-chloroisopropyl) ether			1330	850.2		ug/Kg		64	25 - 124	9	30
2,4,5-Trichlorophenol			1330	1033		ug/Kg		77	40 - 135	11	30
2,4,6-Trichlorophenol			1330	1019		ug/Kg		76	39 - 139	13	30
2,4-Dinitrotoluene			1330	933.1		ug/Kg		70	48 - 131	9	30
Dinitrophenols			1330	941.5		ug/Kg		71	19 - 131	10	40
2,4-Dichlorophenol			1330	981.5		ug/Kg		74	36 - 135	9	30
2,6-Dinitrotoluene			1330	1054		ug/Kg		79	42 - 136	10	30
Dichlorobenzidine, 3,3'-			1330	796.1		ug/Kg		60	35 - 134	7	40
4,6-Dinitro-2-methylphenol			1330	938.7		ug/Kg		70	30 - 146	9	40
Acenaphthene			1330	900.9		ug/Kg		68	37 - 131	11	30

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39639/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene			1330	957.3		ug/Kg		72	39 - 139	7	30
Acenaphthylene			1330	947.1		ug/Kg		71	39 - 129	11	30
Benzo[a]anthracene			1330	930.5		ug/Kg		70	44 - 135	9	30
Benzo[b]fluoranthene			1330	961.1		ug/Kg		72	40 - 153	6	30
Benzo[k]fluoranthene			1330	1010		ug/Kg		76	33 - 156	8	30
Benzo[g,h,i]perylene			1330	1034		ug/Kg		78	40 - 153	8	30
Benzo[a]pyrene			1330	1042		ug/Kg		78	43 - 153	7	30
Di (2-ethylhexyl)phthalate			1330	872.8		ug/Kg		65	46 - 145	7	30
Bis(2-chloroethyl)ether			1330	861.0		ug/Kg		65	33 - 127	9	30
Chrysene			1330	898.5		ug/Kg		67	42 - 135	8	30
Dibutylphthalate			1330	1061		ug/Kg		80	43 - 142	7	30
Dibenz(a,h)anthracene			1330	1022		ug/Kg		77	41 - 155	9	30
Diethyl phthalate			1330	960.3		ug/Kg		72	45 - 131	9	30
Dimethyl phthalate			1330	940.1		ug/Kg		71	43 - 132	10	30
Fluoranthene			1330	994.2		ug/Kg		75	41 - 138	8	30
Fluorene			1330	936.7		ug/Kg		70	41 - 131	11	30
Hexachlorobenzene			1330	918.1		ug/Kg		69	36 - 142	8	30
Hexachlorobutadiene			1330	879.5		ug/Kg		66	35 - 129	11	30
Hexachlorocyclopentadiene			1330	941.9		ug/Kg		71	16 - 106	11	30
Hexachloroethane			1330	874.6		ug/Kg		66	36 - 121	9	30
Indeno[1,2,3-cd]pyrene			1330	1047		ug/Kg		79	39 - 154	9	30
Isophorone			1330	910.5		ug/Kg		68	36 - 128	9	30
N-Nitrosodi-n-butylamine			1330	1098		ug/Kg		82	34 - 135	9	30
N-Nitrosodiethylamine			1330	932.0		ug/Kg		70	36 - 127	12	30
N-Nitrosodiphenylamine			1330	973.6		ug/Kg		73	27 - 155	10	30
N-Nitrosopyrrolidine			1330	981.1		ug/Kg		74	38 - 136	10	30
Pentachlorobenzene			1330	935.9		ug/Kg		70	38 - 136	11	30
Pentachlorophenol			1330	931.9		ug/Kg		70	14 - 148	15	40
Phenanthrene			1330	908.2		ug/Kg		68	37 - 139	8	30
Pyrene			1330	927.4		ug/Kg		70	42 - 138	6	30
Naphthalene			1330	873.4		ug/Kg		66	35 - 128	10	30
2-Methylnaphthalene			1330	903.5		ug/Kg		68	36 - 126	9	30
Nitrobenzene			1330	923.8		ug/Kg		69	32 - 129	11	30
Benzidine			1330	322.1	J	ug/Kg		24	12 - 112	12	40
Phenol			1.33	0.9432		mg/Kg		71	34 - 127	10	40
N-Nitrosodimethylamine			1330	883.0		ug/Kg		66	27 - 126	11	30
Atrazine			1330	1171		ug/Kg		88	18 - 134	7	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	828.0		ug/Kg		62	30 - 130	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*30 - 115*
2-Fluorophenol	*87*		*25 - 121*
2,4,6-Tribromophenol	*89*		*19 - 122*
Nitrobenzene-d5	*84*		*23 - 129*
Phenol-d5 (Surr)	*86*		*24 - 113*
p-Terphenyl-d14 (Surr)	*85*		*18 - 137*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-40168/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40117 **Prep Batch: 40168**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 14:42	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 14:42	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 14:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*65 - 130*	*02/03/22 13:11*	*02/03/22 14:42*	*1*
o-Terphenyl (Surr)	*82*		*65 - 130*	*02/03/22 13:11*	*02/03/22 14:42*	*1*

Lab Sample ID: LCS 860-40168/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40117 **Prep Batch: 40168**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	994	950.3		mg/Kg		96	70 - 135
Diesel Range Organics (Over C10-C28)	996	912.0		mg/Kg		92	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*90*		*65 - 130*
o-Terphenyl (Surr)	*83*		*65 - 130*

Lab Sample ID: LCSD 860-40168/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40117 **Prep Batch: 40168**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	994	950.2		mg/Kg		96	70 - 135	0	35
Diesel Range Organics (Over C10-C28)	996	927.1		mg/Kg		93	70 - 135	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*65 - 130*
o-Terphenyl (Surr)	*83*		*65 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-40042/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		02/02/22 17:01	02/03/22 10:30	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-40042/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endrin	0.291	U	0.833	0.291	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		02/02/22 17:01	02/03/22 10:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*35 - 135*	*02/02/22 17:01*	*02/03/22 10:30*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*25 - 143*	*02/02/22 17:01*	*02/03/22 10:30*	*1*

Lab Sample ID: LCS 860-40042/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DDT			16.7	19.00		ug/Kg		114	13 - 192		
Aldrin			16.7	15.48		ug/Kg		93	30 - 152		
Hexachlorocyclohexane, alpha-			16.7	16.23		ug/Kg		97	29 - 160		
Hexachlorocyclohexane, beta-			16.7	15.71		ug/Kg		94	30 - 155		
Hexachlorocyclohexane, delta-			16.7	16.67		ug/Kg		100	20 - 161		
Dieldrin			16.7	16.54		ug/Kg		99	33 - 153		
Endosulfan I			16.7	16.10		ug/Kg		97	30 - 151		
Endosulfan II			16.7	16.72		ug/Kg		100	27 - 153		
Endosulfan sulfate			16.7	17.54		ug/Kg		105	15 - 170		
Endrin			16.7	16.76		ug/Kg		101	25 - 162		
Endrin aldehyde			16.7	16.07		ug/Kg		96	49 - 117		
Hexachlorocyclohexane, gamma-			16.7	16.67		ug/Kg		100	30 - 158		
Heptachlor			16.7	16.14		ug/Kg		97	29 - 163		
Heptachlor epoxide			16.7	15.75		ug/Kg		94	30 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*98*		*25 - 143*

Lab Sample ID: LCSD 860-40042/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT			16.7	17.60		ug/Kg		106	13 - 192	8	25

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-40042/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.7	15.39		ug/Kg		92	30 - 152	1	25
Hexachlorocyclohexane, alpha-			16.7	16.97		ug/Kg		102	29 - 160	4	25
Hexachlorocyclohexane, beta-			16.7	16.46		ug/Kg		99	30 - 155	5	25
Hexachlorocyclohexane, delta-			16.7	17.35		ug/Kg		104	20 - 161	4	25
Dieldrin			16.7	16.24		ug/Kg		97	33 - 153	2	25
Endosulfan I			16.7	15.92		ug/Kg		95	30 - 151	1	25
Endosulfan II			16.7	16.55		ug/Kg		99	27 - 153	1	25
Endosulfan sulfate			16.7	17.33		ug/Kg		104	15 - 170	1	25
Endrin			16.7	15.76		ug/Kg		95	25 - 162	6	25
Endrin aldehyde			16.7	16.02		ug/Kg		96	49 - 117	0	25
Hexachlorocyclohexane, gamma-			16.7	17.18		ug/Kg		103	30 - 158	3	25
Heptachlor			16.7	17.49		ug/Kg		105	29 - 163	8	25
Heptachlor epoxide			16.7	15.65		ug/Kg		94	30 - 150	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*97*		*25 - 143*

Lab Sample ID: 860-19995-1 MS **Client Sample ID: Cell25-Square187-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	0.253	U	16.6	16.40		ug/Kg		99	13 - 192
Aldrin	0.362	U	16.6	13.12		ug/Kg		79	30 - 152
Hexachlorocyclohexane, alpha-	0.678	U	16.6	13.93		ug/Kg		84	29 - 160
Hexachlorocyclohexane, beta-	0.472	U	16.6	13.98		ug/Kg		84	30 - 155
Hexachlorocyclohexane, delta-	0.831	U	16.6	14.47		ug/Kg		87	20 - 161
Dieldrin	0.169	U	16.6	14.23		ug/Kg		86	33 - 153
Endosulfan I	0.201	U	16.6	13.84		ug/Kg		83	30 - 151
Endosulfan II	0.371	U	16.6	14.32		ug/Kg		86	27 - 153
Endosulfan sulfate	0.275	U	16.6	14.99		ug/Kg		90	15 - 170
Endrin	0.290	U	16.6	14.98		ug/Kg		90	25 - 162
Endrin aldehyde	0.247	U	16.6	13.28		ug/Kg		80	49 - 117
Hexachlorocyclohexane, gamma-	0.438	U	16.6	14.33		ug/Kg		86	30 - 158
Heptachlor	0.561	U	16.6	13.94		ug/Kg		84	29 - 163
Heptachlor epoxide	0.244	U	16.6	13.55		ug/Kg		82	30 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*71*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*76*		*25 - 143*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 860-19995-1 MSD **Client Sample ID: Cell25-Square187-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT	0.253	U	16.7	17.75		ug/Kg		107	13 - 192	8	25
Aldrin	0.362	U	16.7	12.67		ug/Kg		76	30 - 152	3	25
Hexachlorocyclohexane, alpha-	0.678	U	16.7	13.06		ug/Kg		78	29 - 160	6	25
Hexachlorocyclohexane, beta-	0.472	U	16.7	14.07		ug/Kg		84	30 - 155	1	25
Hexachlorocyclohexane, delta-	0.831	U	16.7	14.51		ug/Kg		87	20 - 161	0	25
Dieldrin	0.169	U	16.7	14.41		ug/Kg		86	33 - 153	1	25
Endosulfan I	0.201	U	16.7	13.96		ug/Kg		84	30 - 151	1	25
Endosulfan II	0.371	U	16.7	14.71		ug/Kg		88	27 - 153	3	25
Endosulfan sulfate	0.275	U	16.7	15.43		ug/Kg		93	15 - 170	3	25
Endrin	0.290	U	16.7	15.51		ug/Kg		93	25 - 162	4	25
Endrin aldehyde	0.247	U	16.7	13.36		ug/Kg		80	49 - 117	1	25
Hexachlorocyclohexane, gamma-	0.438	U	16.7	13.85		ug/Kg		83	30 - 158	3	25
Heptachlor	0.561	U	16.7	13.86		ug/Kg		83	29 - 163	1	25
Heptachlor epoxide	0.244	U	16.7	13.58		ug/Kg		82	30 - 150	0	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*62*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*76*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-40042/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40154 **Prep Batch: 40042**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		02/02/22 17:01	02/03/22 13:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*35 - 140*	*02/02/22 17:01*	*02/03/22 13:13*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 142*	*02/02/22 17:01*	*02/03/22 13:13*	*1*

Lab Sample ID: LCS 860-40042/14-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40154 **Prep Batch: 40042**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			0.167	0.1576		mg/Kg		94	27 - 121		
Aroclor 1260			0.167	0.1512		mg/Kg		91	27 - 139		

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-40042/14-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40154 **Prep Batch: 40042**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	*81*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*87*		*37 - 142*

Lab Sample ID: LCSD 860-40042/15-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40154 **Prep Batch: 40042**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.166	0.1527		mg/Kg		92	27 - 121	3	20
Aroclor 1260			0.166	0.1461		mg/Kg		88	27 - 139	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	*79*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*83*		*37 - 142*

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565273/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565765 **Prep Batch: 565273**

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		02/07/22 15:28	02/11/22 02:02	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/07/22 15:28	02/11/22 02:02	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/07/22 15:28	02/11/22 02:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	*106*		*83 - 122*	*02/07/22 15:28*	*02/11/22 02:02*	*1*

Lab Sample ID: LCS 280-565273/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565765 **Prep Batch: 565273**

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	0.9626		mg/Kg		96	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9928		mg/Kg		99	80 - 124
2,4,6-Trinitrotoluene			1.00	1.035		mg/Kg		103	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	*104*		*83 - 122*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-39863/32-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40032 **Prep Batch: 39863**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrite as N	0.0500	U	1.00	0.0500	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrate Nitrite as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		02/01/22 20:43	02/03/22 00:14	1

Lab Sample ID: LCS 860-39863/33-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40032 **Prep Batch: 39863**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	100.2		mg/Kg		100	80 - 120
Nitrate as N	100	100.1		mg/Kg		100	80 - 120
Fluoride	100	102.1		mg/Kg		102	80 - 120
Nitrite as N	50.0	47.27		mg/Kg		95	80 - 120
Nitrate Nitrite as N	150	147.4		mg/Kg		98	80 - 120
Sulfate	100	99.86		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 860-39863/34-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40032 **Prep Batch: 39863**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	100.9		mg/Kg		101	80 - 120	1	20
Nitrate as N	100	100.3		mg/Kg		100	80 - 120	0	20
Fluoride	100	102.5		mg/Kg		103	80 - 120	0	20
Nitrite as N	50.0	47.17		mg/Kg		94	80 - 120	0	20
Nitrate Nitrite as N	150	147.5		mg/Kg		98	80 - 120	0	20
Sulfate	100	99.95		mg/Kg		100	80 - 120	0	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 564802

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.04711	J	ug/L		94	70 - 130

Lab Sample ID: MB 280-565332/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565538 **Prep Batch: 565332**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/07/22 14:51	02/08/22 15:45	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS (Continued)

Lab Sample ID: LCS 280-565332/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565538 **Prep Batch: 565332**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.500	0.5210		ug/Kg		104	80 - 120		

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 556129

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorooctanoic acid (PFOA)			0.500	0.490	U	ug/L		94	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)			0.455	0.4417	J	ug/L		97	70 - 130		
Perfluorooctanesulfonic acid (PFOS)			0.464	0.665	U	ug/L		95	70 - 130		

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

Lab Sample ID: MB 280-565221/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566231 **Prep Batch: 565221**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/07/22 10:31	02/16/22 09:44	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/07/22 10:31	02/16/22 09:44	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/07/22 10:31	02/16/22 09:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/07/22 10:31*	*02/16/22 09:44*	*1*
13C8 PFOS	*104*		*70 - 130*	*02/07/22 10:31*	*02/16/22 09:44*	*1*

Lab Sample ID: LCS 280-565221/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566231 **Prep Batch: 565221**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorooctanoic acid (PFOA)			20.0	19.34		ug/Kg		97	70 - 131		
Perfluorohexanesulfonic acid (PFHxS)			18.2	17.39		ug/Kg		96	70 - 135		
Perfluorooctanesulfonic acid (PFOS)			18.6	17.15		ug/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*103*		*57 - 153*
13C8 PFOS	*109*		*70 - 130*

QC Sample Results

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

Job ID: 860-19995-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-40290/1-A
Matrix: Solid
Analysis Batch: 40589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40290

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/04/22 11:08	02/07/22 19:05	1

Lab Sample ID: LCS 860-40290/2-A
Matrix: Solid
Analysis Batch: 40589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	4.81	4.772		mg/Kg		99	80 - 120
Arsenic	9.62	8.596		mg/Kg		89	80 - 120
Barium	9.62	8.620		mg/Kg		90	80 - 120
Beryllium	9.62	8.517		mg/Kg		89	80 - 120
Cadmium	9.62	8.661		mg/Kg		90	80 - 120
Chromium	9.62	8.582		mg/Kg		89	80 - 120
Copper	9.62	8.540		mg/Kg		89	80 - 120
Iron	48.1	40.92		mg/Kg		85	80 - 120
Manganese	9.62	8.813		mg/Kg		92	80 - 120
Lead	9.62	8.542		mg/Kg		89	80 - 120
Antimony	9.62	9.150		mg/Kg		95	80 - 120
Selenium	9.62	8.591		mg/Kg		89	80 - 120
Thallium	9.62	8.670		mg/Kg		90	80 - 120
Uranium	2.40	2.122		mg/Kg		88	80 - 120
Zinc	9.62	8.983		mg/Kg		93	80 - 120

Lab Sample ID: LCSD 860-40290/3-A
Matrix: Solid
Analysis Batch: 40589

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40290

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	5.00	4.977		mg/Kg		100	80 - 120	4	20
Arsenic	10.0	8.962		mg/Kg		90	80 - 120	4	20
Barium	10.0	9.089		mg/Kg		91	80 - 120	5	20
Beryllium	10.0	8.789		mg/Kg		88	80 - 120	3	20
Cadmium	10.0	9.036		mg/Kg		90	80 - 120	4	20
Chromium	10.0	8.782		mg/Kg		88	80 - 120	2	20
Copper	10.0	8.762		mg/Kg		88	80 - 120	3	20

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QC Sample Results

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

Job ID: 860-19995-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-40290/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40589 — **Prep Batch: 40290**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	50.0	41.22		mg/Kg		82	80 - 120	1	20
Manganese	10.0	8.931		mg/Kg		89	80 - 120	1	20
Lead	10.0	8.865		mg/Kg		89	80 - 120	4	20
Antimony	10.0	9.621		mg/Kg		96	80 - 120	5	20
Selenium	10.0	9.025		mg/Kg		90	80 - 120	5	20
Thallium	10.0	8.984		mg/Kg		90	80 - 120	4	20
Uranium	2.50	2.223		mg/Kg		89	80 - 120	5	20
Zinc	10.0	9.206		mg/Kg		92	80 - 120	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39690/10-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39840 — **Prep Batch: 39690**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00377	U	0.0196	0.00377	mg/Kg		02/01/22 08:30	02/01/22 12:23	1

Lab Sample ID: LCS 860-39690/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39840 — **Prep Batch: 39690**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.192	0.1814		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 860-39690/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39840 — **Prep Batch: 39690**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.192	0.1813		mg/Kg		94	80 - 120	0	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40886/22-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/09/22 15:50	02/09/22 17:14	1

Lab Sample ID: LCS 860-40886/23-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	102.7		ug/Kg		103	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LLCS 860-40886/24-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			50.0	52.26		ug/Kg		105	90 - 110		

Lab Sample ID: 860-19995-1 MS — **Client Sample ID: Cell25-Square187-5-3-4-220128**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	28.6	U	2350	871.4	N1	ug/Kg		37	90 - 110		

Lab Sample ID: 860-19995-1 MSD — **Client Sample ID: Cell25-Square187-5-3-4-220128**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	28.6	U	2340	845.3	N1	ug/Kg		36	90 - 110	3	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193044/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/10/22 15:50	1

Lab Sample ID: LCS 560-193044/2 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193044

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			2250	2168		mg/L		96	90 - 110		

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-549566/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 552703 — **Prep Batch: 549566**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.04328	U	0.109	0.109	1.00	0.430	pCi/g	02/07/22 11:13	02/28/22 08:17	1
Radium-228	0.03606	U	0.121	0.121		0.225	pCi/g	02/07/22 11:13	02/28/22 08:17	1
Combined Radium 226 + 228	-0.007223	U	0.163	0.163		0.430	pCi/g	02/07/22 11:13	02/28/22 08:17	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: LCS 160-549566/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 552704 **Prep Batch: 549566**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.2	98.17		11.8		1.22	pCi/g	102	75 - 125
Cesium-137	26.0	26.58		3.23		0.184	pCi/g	102	75 - 125
Cobalt-60	8.07	8.153		1.01		0.0392	pCi/g	101	75 - 125

Lab Sample ID: 860-19995-2 DU **Client Sample ID: Cell25-Square32-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 552697 **Prep Batch: 549566**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.522		0.4846		0.151	1.00	0.144	pCi/g	0.11	1
Radium-228	0.642		0.7397		0.256		0.397	pCi/g	0.18	1
Combined Radium 226 + 228	1.16		1.224		0.297		0.397	pCi/g	0.09	1

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	5035	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	5035	

Analysis Batch: 40051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8260D SIM	39768
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8260D SIM	39768
MB 860-40051/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-40051/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-40051/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8260B	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8260B	
MB 560-192728/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192728/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192728/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	3550C	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	3550C	
MB 860-39639/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39639/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39639/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 39861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8270D	39639
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8270D	39639
MB 860-39639/1-A	Method Blank	Total/NA	Solid	8270D	39639
LCS 860-39639/2-A	Lab Control Sample	Total/NA	Solid	8270D	39639
LCSD 860-39639/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	39639

Prep Batch: 566137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	3546	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	3546	
MB 400-566137/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 566465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8270D	566137
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8270D	566137
MB 400-566137/1-A	Method Blank	Total/NA	Solid	8270D	566137
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	8270D	566137

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Prep Batch: 40042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	3550C	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	3550C	
MB 860-40042/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-40042/14-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-40042/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-40042/15-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-40042/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-19995-1 MS	Cell25-Square187-5-3-4-220128	Total/NA	Solid	3550C	
860-19995-1 MSD	Cell25-Square187-5-3-4-220128	Total/NA	Solid	3550C	

Analysis Batch: 40085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8081B	40042
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8081B	40042
MB 860-40042/1-A	Method Blank	Total/NA	Solid	8081B	40042
LCS 860-40042/2-A	Lab Control Sample	Total/NA	Solid	8081B	40042
LCSD 860-40042/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	40042
860-19995-1 MS	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8081B	40042
860-19995-1 MSD	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8081B	40042

Analysis Batch: 40117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8015B NM	40168
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8015B NM	40168
MB 860-40168/1-A	Method Blank	Total/NA	Solid	8015B NM	40168
LCS 860-40168/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40168
LCSD 860-40168/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40168

Analysis Batch: 40154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8082A	40042
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8082A	40042
MB 860-40042/1-A	Method Blank	Total/NA	Solid	8082A	40042
LCS 860-40042/14-A	Lab Control Sample	Total/NA	Solid	8082A	40042
LCSD 860-40042/15-A	Lab Control Sample Dup	Total/NA	Solid	8082A	40042

Prep Batch: 40168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8015NM Prep	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8015NM Prep	
MB 860-40168/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-40168/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-40168/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Prep Batch: 39863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	300_Prep	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	300_Prep	
MB 860-39863/32-A	Method Blank	Total/NA	Solid	300_Prep	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Prep Batch: 39863 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Analysis Batch: 40032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	9056A	39863
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	9056A	39863
MB 860-39863/32-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	9056A	39863
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39863

Analysis Batch: 40033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	9056A	39863
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	9056A	39863
MB 860-39863/32-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	9056A	39863
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39863

Drying Batch: 565114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8330B	565114
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8330B	565114
MB 280-565273/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565273/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 565765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8330B	565273
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8330B	565273
MB 280-565273/1-A	Method Blank	Total/NA	Solid	8330B	565273
LCS 280-565273/2-A	Lab Control Sample	Total/NA	Solid	8330B	565273

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	PFC leach	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

LCMS (Continued)

Prep Batch: 565221 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	PFC leach	
MB 280-565221/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565221/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Prep Batch: 565332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	6860	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	6860	
MB 280-565332/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565332/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	6860	565332
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	6860	565332
MB 280-565332/1-A	Method Blank	Total/NA	Solid	6860	565332
LCS 280-565332/2-A	Lab Control Sample	Total/NA	Solid	6860	565332

Analysis Batch: 566231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	DV-LC-0012	565221
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	DV-LC-0012	565221
MB 280-565221/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565221
LCS 280-565221/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565221

Metals

Prep Batch: 39690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	7471A	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	7471A	
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

Analysis Batch: 39840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	7471A	39690
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	7471A	39690
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	39690
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	39690
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39690

Prep Batch: 40290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	3051A	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	3051A	
MB 860-40290/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-40290/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-40290/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Analysis Batch: 40589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	6020A	40290
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	6020A	40290
MB 860-40290/1-A	Method Blank	Total/NA	Solid	6020A	40290
LCS 860-40290/2-A	Lab Control Sample	Total/NA	Solid	6020A	40290
LCSD 860-40290/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	40290

General Chemistry

Analysis Batch: 39955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	Moisture - 2540	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	Moisture - 2540	
MB 860-39955/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Prep Batch: 40886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	9012A	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	9012A	
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	
860-19995-1 MS	Cell25-Square187-5-3-4-220128	Total/NA	Solid	9012A	
860-19995-1 MSD	Cell25-Square187-5-3-4-220128	Total/NA	Solid	9012A	

Analysis Batch: 40920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	9012A	40886
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	9012A	40886
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	40886
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	40886
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	40886
860-19995-1 MS	Cell25-Square187-5-3-4-220128	Total/NA	Solid	9012A	40886
860-19995-1 MSD	Cell25-Square187-5-3-4-220128	Total/NA	Solid	9012A	40886

Leach Batch: 41396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Soluble	Solid	DI Leach	
860-19995-2	Cell25-Square32-5-3-4-220128	Soluble	Solid	DI Leach	

Analysis Batch: 41417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Soluble	Solid	9045D	41396
860-19995-2	Cell25-Square32-5-3-4-220128	Soluble	Solid	9045D	41396

Prep Batch: 42223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	Distill/Phenol	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	Distill/Phenol	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Analysis Batch: 42401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	9066	42223
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	9066	42223

Leach Batch: 193042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	7 Day Leach	Solid	335.521	
860-19995-2	Cell25-Square32-5-3-4-220128	7 Day Leach	Solid	335.521	

Analysis Batch: 193044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	7 Day Leach	Solid	SM 2540C	193042
860-19995-2	Cell25-Square32-5-3-4-220128	7 Day Leach	Solid	SM 2540C	193042
MB 560-193044/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193044/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	Dry and Grind	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	Dry and Grind	
860-19995-2 DU	Cell25-Square32-5-3-4-220128	Total/NA	Solid	Dry and Grind	

Prep Batch: 549566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	Fill_Geo-21	549041
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	Fill_Geo-21	549041
MB 160-549566/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-549566/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
860-19995-2 DU	Cell25-Square32-5-3-4-220128	Total/NA	Solid	Fill_Geo-21	549041

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square187-5-3-4-220128 **Lab Sample ID: 860-19995-1**
Date Collected: 01/28/22 09:40 **Matrix: Solid**
Date Received: 01/29/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.6 g	5 mL	192728	02/01/22 16:15	RJD	XEN CC
Total/NA	Prep	5035			4.95 g	5 mL	39768	02/01/22 16:14	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 05:10	A1S	XEN STF
Total/NA	Prep	3550C			30.02 g	1 mL	39639	01/31/22 15:04	TH	XEN STF
Total/NA	Analysis	8270D		10			39861	02/02/22 00:37	T1S	XEN STF
Total/NA	Prep	3546			15.12 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 23:30	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	40168	02/03/22 13:11	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			40117	02/03/22 17:03	T1S	XEN STF
Total/NA	Prep	3550C			30.08 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8081B		1			40085	02/03/22 11:39	WP	XEN STF
Total/NA	Prep	3550C			30.08 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8082A		1			40154	02/03/22 14:19	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	565114	02/03/22 11:42	EKB	TAL DEN
Total/NA	Prep	8330B			10.73 g	40 mL	565273	02/07/22 15:28	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565765	02/11/22 06:14	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.08 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40032	02/03/22 02:48	WP	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40033	02/03/22 02:48	WP	XEN STF
Total/NA	Prep	6860			10.34 g	100 mL	565332	02/07/22 14:51	TEH	TAL DEN
Total/NA	Analysis	6860		1			565538	02/08/22 16:27	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.47 g	20 mL	565221	02/07/22 10:31	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566231	02/16/22 10:55	AGCM	TAL DEN
Total/NA	Prep	3051A			.55 g	50 mL	40290	02/04/22 11:08	PB	XEN STF
Total/NA	Analysis	6020A		10			40589	02/07/22 19:50	DCL	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:44	SHZ	XEN STF
Total/NA	Prep	9012A			0.5209 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:41	CM1	XEN STF
Soluble	Leach	DI Leach			20.02 g	20 mL	41396	02/14/22 12:06	TL	XEN STF
Soluble	Analysis	9045D		1	20.02 g	20 mL	41417	02/14/22 14:32	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 14:10	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			335.3000 g	1.0 g	549566	02/07/22 11:13	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552697	02/28/22 07:40	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square32-5-3-4-220128
Lab Sample ID: 860-19995-2
Date Collected: 01/28/22 10:06
Matrix: Solid
Date Received: 01/29/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.48 g	5 mL	192728	02/01/22 16:40	RJD	XEN CC
Total/NA	Prep	5035			5.05 g	5 mL	39768	02/01/22 16:14	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 05:31	A1S	XEN STF
Total/NA	Prep	3550C			30.61 g	1 mL	39639	01/31/22 15:04	TH	XEN STF
Total/NA	Analysis	8270D		10			39861	02/02/22 01:01	T1S	XEN STF
Total/NA	Prep	3546			15.24 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 23:56	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10 g	10 mL	40168	02/03/22 13:11	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			40117	02/03/22 17:43	T1S	XEN STF
Total/NA	Prep	3550C			30.12 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8081B		1			40085	02/03/22 11:53	WP	XEN STF
Total/NA	Prep	3550C			30.12 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8082A		1			40154	02/03/22 14:29	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	565114	02/03/22 11:42	EKB	TAL DEN
Total/NA	Prep	8330B			10.14 g	40 mL	565273	02/07/22 15:28	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565765	02/11/22 06:37	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.91 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40032	02/03/22 03:00	WP	XEN STF
Total/NA	Prep	300_Prep			4.91 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40033	02/03/22 03:00	WP	XEN STF
Total/NA	Prep	6860			10.24 g	100 mL	565332	02/07/22 14:51	TEH	TAL DEN
Total/NA	Analysis	6860		1			565538	02/08/22 16:32	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.3 g	20 mL	565221	02/07/22 10:31	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566231	02/16/22 11:03	AGCM	TAL DEN
Total/NA	Prep	3051A			.56 g	50 mL	40290	02/04/22 11:08	PB	XEN STF
Total/NA	Analysis	6020A		10			40589	02/07/22 19:53	DCL	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:45	SHZ	XEN STF
Total/NA	Prep	9012A			0.5028 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:45	CM1	XEN STF
Soluble	Leach	DI Leach			20.03 g	20 mL	41396	02/14/22 12:06	TL	XEN STF
Soluble	Analysis	9045D		1	20.03 g	20 mL	41417	02/14/22 14:32	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 14:13	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			327.8000 g	1.0 g	549566	02/07/22 11:13	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552706	02/28/22 07:39	JCB	TAL SL

Lab Chronicle

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

Job ID: 860-19995-1

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

Laboratory: Eurofins St. Louis

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Sample Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19995-1	Cell25-Square187-5-3-4-220128	Solid	01/28/22 09:40	01/29/22 09:40
860-19995-2	Cell25-Square32-5-3-4-220128	Solid	01/28/22 10:06	01/29/22 09:40

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Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

860-19995 Chain of Custody

Environment Testing America

Client Information	Sampler: Cory Rodriguez	Lab PM: Kudchadkar Sachin G	21039.1
Client Contact: Alison Schaffer	Phone: 432 599-5594	E-Mail: Sachin.Kudchadkar@Eurofinset.com	Page: 1-1
Company: ARCADIS U.S. Inc.		**Analysis Requested**	Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:		
City: Highlands Ranch	TAT Requested (days): Standard		
State, Zip: CO, 80129-2377			
Phone: 303-710-7537(Tel)	PO #:		
Email: Alison.Schaffer@arcadis.com	WO #:		
Project Name: Chevron Jal Land Farm Soils	Project #: 86002103		
Site:	SSOW#:		

Temp: 0.4 IR ID:HOU-323
C/F +0.2
Corrected Temp. 0.6

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B- Volatiles	8270C- Semivolatiles/ 8081 Pesticides/ 8082 PCB	8260 Perchlorate-Ddenver- soil jar 4 oz	8330B Danver soil jar 4 oz	PFC Denver- plastic 16 oz jar	8270D_AgChem -Pensacola soil jar 4 oz	2540C_Calcd Local Method/ Moisture/ pH 9045	8015B_GRO	8015_DRO/ORO	GA-01_R_ra- Rad 226/228- St Louis- 2 plastic jars 16	9056- Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate; Fluoride	6020/7471- St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X														
Cell 25 Square 187-5-3-4-220128	1/28/22	0940	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15
Cell 15 - Square 32-5-3-4-220128	1/28/22	1006	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
TB				Solid																

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Cory Rodriguez	Date/Time: 1/28/22 1700	Company: Arcadis	Received by:	Date/Time: 1/29/22 9:40	Company: Xenco
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No. | Cooler Temperature(s) °C and Other Remarks:

Ver 01/16/2019

Received by OCD: 9/12/2022 9:41:21 AM
Released to Imaging: 10/28/2022 10:00:56 AM
2/28/2022
Page 55 of 64

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9862.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19995-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/17/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell25-Square187-5-3-4-220128 (860-19995-1)	1/28/22	09:40 Central		Solid			X	1	
Cell25-Square32-5-3-4-220128 (860-19995-2)	1/28/22	10:06 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 out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	1/31/22 1900	Xenco	FED EX		
2	FED EX			[signature]		
3				Autumn R. Johnson	FEB 01 2022 0915	ETA STL

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9863.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19995-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/16/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell25-Square187-5-3-4-220128 (860-19995-1)	1/28/22	09:40 Central		Solid			X	X	X	3	
Cell25-Square32-5-3-4-220128 (860-19995-2)	1/28/22	10:06 Central		Solid			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	1/31/22 1900	Xenco			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9861.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19995-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/16/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C/TX_7Day_T	8260B/5030B_Solid (MOD) mod	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell25-Square187-5-3-4-220128 (860-19995-1)	1/28/22	09:40 Central		Solid			X	X	1	
Cell25-Square32-5-3-4-220128 (860-19995-2)	1/28/22	10:06 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11/3/22 1900	Xenco	[signature]	02/01/2022 1110	EX
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: 1.1 C6 IR-13 0.8

Ver: 06/08/2021

Released to Imaging: 10/28/2022 10:00:56 AM
Received by OCD: 9/12/2022 9:41:21 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9874.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19995-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/16/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C/TX_7Day_T	8260B/5030B_Solid (MOD) mod	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell25-Square187-5-3-4-220128 (860-19995-1)	1/28/22	09:40 Central		Solid			X	X	1	
Cell25-Square32-5-3-4-220128 (860-19995-2)	1/28/22	10:06 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Sandra Jones	2/1/22 1900	Xenco		2-2-22 12:23	EX
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: 3.7/3.6 IR40 CG

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19995-1

Login Number: 19995 **List Source: Eurofins Houston**
List Number: 1
Creator: Torres, Sandra

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	0.6
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: 860-19995-1

Login Number: 19995 **List Source: Eurofins Corpus Christi**
List Number: 2 **List Creation: 02/01/22 12:01 PM**
Creator: Forrester, Caitlyn D

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.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19995-1

Login Number: 19995 **List Source: Eurofins Denver**
List Number: 4 **List Creation: 02/01/22 12:53 PM**
Creator: Rystrom, Joshua R

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	
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").	True	
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: 860-19995-1

Login Number: 19995 **List Source: Eurofins Pensacola**
List Number: 3 **List Creation: 02/01/22 01:46 PM**
Creator: Roberts, Alexis J

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	0.8°C IR9
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: 860-19995-1

Login Number: 19995 **List Source: Eurofins St. Louis**
List Number: 5 **List Creation: 02/01/22 04:03 PM**
Creator: Johnson, Autumn R

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	
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.	N/A	

Arcadis U.S., Inc.
630 Plaza Drive, Suite 200
Highlands Ranch
Colorado 80129
Phone: 720 344 3500
Fax: 720 344 3535
www.arcadis.com

Jones, Brad, EMNRD

From: Jones, Brad, EMNRD
Sent: Friday, October 28, 2022 9:40 AM
To: Martinez, Armando
Cc: SteveRice@arcadis.com; AlisonSchaffer@arcadis.com
Subject: NM2-012 Chevron Jal Landfarm Release Response Sampling Results and Action Plan Review
Attachments: 2022 1028 NM2-012 Chevron Vadose Zone Release Response Action Plan Review signed.pdf

Mr. Martinez,

Please see the attached. It is OCD's review of the September 1, 2022 Release Response Sampling Results and Action Plan for Permit NM2-012. If you have any questions regarding this matter, please do not hesitate to contact me.

Sincerely,

Brad A. Jones

Brad A. Jones ● Environmental Scientist Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
1220 S. Saint Francis Drive | Santa Fe, New Mexico 87505
(505) 469-7486 | brad.a.jones@emnrd.nm.gov
www.emnrd.nm.gov

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Division Director
Oil Conservation Division

October 28, 2022

Armando Martinez,
Chevron USA Inc.
354 State Highway 38
Questa, New Mexico 87556-04698
amarti@chevron.com

RE: Release Response Sampling Results and Action Plan Review
Chevron USA Inc. (OGRID 4323)
Jal Landfarm, Permit NM2-012
Location: W/2 of Section 17, Township 24 South, Range 36 East, NMPM
Lea County, New Mexico

Dear Mr. Martinez:

The Oil Conservation Division (OCD) has completed its review of Chevron Environmental Management Company's (CEMC) Release Response Sampling Results and Action Plan, dated September 1, 2022. OCD's review has resulted in the discovery that during the release response sampling required of 19.15.36.15.E(5) NMAC several constituents were analyzed with method detection limits greater than the established background values. OCD is unable to accept the sampling data and has determined that the release response sampling required to be performed by 19.15.36.15.E(5) NMAC to be incomplete. This has also resulted in the discovery of incorrect assessments and statements within the release response action plan. CEMC must submit the below requested information as an addendum to the September 1, 2022 Release Response Sampling Results and Action Plan.

Section 3.1 Release Response Soil Sampling Results:
In Section 3.1, under TPH, CEMC states "DRO, GRO, and ORO concentrations were below the background soil concentration in all cells." OCD did not find this statement to be accurate. Table 6 and the release response analytical results provided in Appendix B demonstrates that all the samples were analyzed for Gasoline Range Organics (GRO) with method detection limits ranging from 20.8 to 21.2 mg/kg when the background value is 0.0822 mg/kg. OCD is unable to accept the vadose zone release response monitoring results for GRO and the associated written assessment.

Also in Section 3.1, under Constituents listed in Subsections A and B, CEMC does not recognize that all the samples were analyzed for Selenium (CAS 7782-49-2) with method detection limits ranging from 0.413 to 0.477 mg/kg when the background value is 0.279 mg/kg. OCD is unable to accept the vadose zone release response monitoring results for Selenium and the associated written assessment.

Released to Imaging: 10/28/2022 10:00:56 AM

Also in Section 3.1, under Constituents listed in Subsections A and B, CEMC states “Semi-volatile organic compound (SVOC) concentrations were below the background soil concentrations in all cells.” OCD did not find this statement to be accurate for certain constituents. Table 6 and the release response analytical results provided in Appendix B demonstrates that the following SVOCs were analyzed with method detection limits greater than the established background values: 1-Methyl-naphthalene (CAS 90-12-0); 2-Methyl-naphthalene (CAS 91-57-6); Acenaphthene; 2,4-Dichlorophenol (CAS 120-83-2), 2,4,5-Trichlorophenol (CAS 95-95-4), 2,4,6-Trichlorophenol (CAS 88-06-2); bis(2-ethylhexyl) phthalate (CAS 117-81-7); and Hexachlorobutadiene (CAS 87-68-3). OCD wishes to inform CEMC that Acenaphthene (CAS 83-32-9) is not a constituent listed in Subsections A and B of 20.6.2.3103 NMAC, including the toxic pollutants of 20.6.2.3103.A(2) NMAC and identified under Paragraph (2) of 20.6.2.7.T NMAC. OCD is unable to accept the vadose zone release response monitoring results for the 7 Water Quality Control Commission (WQCC) constituents listed above and their associated written assessments.

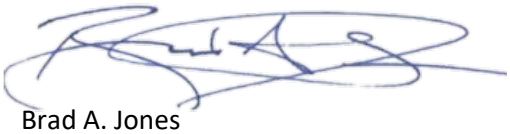
Also in Cells 20, 21, and 25, 9 of 12 of the samples (2 for Cell 20, all 4 for Cell 21, and 3 for Cell 25) that were obtained between January 27 and 28 of 2022 for the following constituents were analyzed with method detection limits greater than the established background values: Acenaphthylene; Anthracene (CAS 120-12-7); Atrazine (CAS 1912-24-9); Benzo(a)anthracene; Benzo(a)pyrene (CAS 50-32-8); Benzo(b)fluoranthene (CAS 205-99-2); Benzo(g,h,i)perylene; Benzo(k)fluoranthene (CAS 207-08-9); Chrysene; Dibenz(a,h)anthracene; Fluoranthene (CAS 206-44-0); Fluorene (CAS 86-73-7); Indeno(1,2,3-cd)Pyrene; Naphthalene (CAS 91-20-3); Phenanthrene (CAS 85-01-8); Pyrene (CAS 129-00-0); 1,2,4,5-Tetrachlorobenzene(CAS 95-94-3); Hexachlorobenzene (CAS 118-74-1); Pentachlorobenzene (CAS 608-93-5); bis (2-chloroisopropyl) ether (CAS 108-60-1); bis (2-chloroethyl) ether (CAS 111-44-4); Hexachloroethane (CAS 67-72-1); N-Nitrosodi-n-Butylamine (CAS 924-16-3); N-Nitrosodiethylamine (CAS 55-18-5); N-Nitrosodimethylamine (CAS 62-75-9); N-Nitrosodiphenylamine (Diphenylamine) (CAS 86-30-6); N-Nitrosopyrrolidine (CAS 930-55-2); 2,4-Dinitrotoluene (CAS 121-14-2); 2,6-Dinitrotoluene (CAS 606-20-2); Nitrobenzene (CAS 98-95-3); Di-n-butylphthalate (CAS 84-74-2); Diethylphthalate (CAS 84-66-2); Dimethyl phthalate (CAS 131-11-3); 3,3'-Dichlorobenzidine (CAS 91-94-1); 1,2-Diphenylhydrazine (CAS 122-66-7); and Isophorone (CAS 78-59-1). The 36 constituents identified in this paragraph were analyzed with method detection limits that were 2 to 13 times greater that the established background values. OCD wishes to inform CEMC that Acenaphthylene (CAS 208-96-8), Benzo(a)anthracene (CAS 56-55-3), Benzo(g,h,i)perylene (CAS 191-24-2), Chrysene (CAS 218-01-9), Dibenz(a,h)anthracene (CAS 53-70-3), and Indeno(1,2,3-cd)pyrene (CAS 193-39-5) are not constituents listed in Subsections A and B of 20.6.2.3103 NMAC, including the toxic pollutants of 20.6.2.3103.A(2) NMAC and identified under Paragraph (2) of 20.6.2.7.T NMAC. OCD is unable to accept the vadose zone release response monitoring results for the 30 Water Quality Control Commission (WQCC) constituents listed above and their associated written assessments.

OCD is unable to accept any of the analytical results required of 19.15.36.15.E(5) NMAC in which CEMC analyzed the constituent with a method detection limit (used to determine non-detects) greater than the established background value. CEMC must resample Landfarm Cells 17, 18, 19, 20, 21, and 25 pursuant to 19.15.36.15.E(5) NMAC and analyze the samples for the following constituents: Gasoline Range Organics (GRO); Selenium (CAS 7782-49-2), 1-Methyl-naphthalene (CAS 90-12-0); 2-Methyl-naphthalene (CAS 91-57-6); 2,4-Dichlorophenol (CAS 120-83-2), 2,4,5-Trichlorophenol (CAS 95-95-4), 2,4,6-Trichlorophenol (CAS 88-06-2); bis(2-ethylhexyl) phthalate (CAS 117-81-7); and Hexachlorobutadiene (CAS 87-68-3). CEMC must also resample Landfarm Cells 20, 21, and 25 pursuant to 19.15.36.15.E(5) NMAC and analyze the samples for the following constituents: Anthracene (CAS 120-12-7); Atrazine (CAS 1912-24-9); Benzo(a)pyrene (CAS 50-32-8); Benzo(b)fluoranthene (CAS 205-99-2); Benzo(k)fluoranthene (CAS 207-08-9); Chrysene; Fluoranthene (CAS 206-44-0); Fluorene (CAS 86-73-7);

Naphthalene (CAS 91-20-3); Phenanthrene (CAS 85-01-8); Pyrene (CAS 129-00-0); 1,2,4,5-Tetrachlorobenzene(CAS 95-94-3); Hexachlorobenzene (CAS 118-74-1); Pentachlorobenzene (CAS 608-93-5); bis (2-chloroisopropyl) ether (CAS 108-60-1); bis (2-chloroethyl) ether (CAS 111-44-4); Hexachloroethane (CAS 67-72-1); N-Nitrosodi-n-Butylamine (CAS 924-16-3); N-Nitrosodiethylamine (CAS 55-18-5); N-Nitrosodimethylamine (CAS 62-75-9); N-Nitrosodiphenylamine (Diphenylamine) (CAS 86-30-6); N-Nitrosopyrrolidine (CAS 930-55-2); 2,4-Dinitrotoluene (CAS 121-14-2); 2,6-Dinitrotoluene (CAS 606-20-2); Nitrobenzene (CAS 98-95-3); Di-n-butylphthalate (CAS 84-74-2); Diethylphthalate (CAS 84-66-2); Dimethyl phthalate (CAS 131-11-3); 3,3'-Dichlorobenzidine (CAS 91-94-1); 1,2-Diphenylhydrazine (CAS 122-66-7); and Isophorone (CAS 78-59-1). CEMC must analyze all of the constituents identified in this paragraph with method detection limits at or below their established background value, for the results and the assessment required of 19.15.36.15.E(5) NMAC to be acceptable. CEMC must submit the sampling results and findings as an addendum to the September 1, 2022 Release Response Sampling Results and Action Plan through OCD Permitting as a Non-Fee SWMF submittal for OCD's review and consideration of approval. Please ensure that only the constituents required of 19.15.36.15.E(5) NMAC are addressed in the addendum.

If there are any questions regarding this matter, please do not hesitate to email me at brad.a.jones@emnrd.nm.gov.

Respectfully,



Brad A. Jones
Environmental Specialist

cc: Steve Rice, Arcadis U.S., Inc., SteveRice@arcadis.com
Alison Schaffer, Arcadis U.S., Inc., AlisonSchaffer@arcadis.com

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 142308

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 142308
	Action Type: [C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

CONDITIONS

Created By	Condition	Condition Date
bjones	OCD emailed the review of the September 1, 2022 Release Response Sampling Results and Action Plan for Permit NM2-012, to Armando Martinez (Chevron) and Steve Rice and Alison Schaffer (Arcadis) on October 28, 2022. OCD's review is attached to the end of the report submittal as OCD's Response. If you have any questions regarding this matter, please do not hesitate to contact me.	10/28/2022