Armando Martinez
Operations Lead, Portfolio Operations Central

February 17, 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 – First Semi-Annual Event 2021 dated February 2022

This report was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of CEMC to document release response activities performed for CEMC during the first semi-annual event of calendar year 2021 at the above referenced project site. 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. Steve Rice, Project Manager, Arcadis

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ARCADIS

Chevron Environmental Management Company

Release Response Sampling Results and Action Plan – October 2021

Jal Landfarm NM-02-0012

Centralized Surface Waste Management Facility

Lea County, New Mexico

February 2022

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Release Response Sampling Results and Action Plan – October 2021

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

February 2022

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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 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 collected on June 24, 1998, and subsequent background sampling was conducted on March 25 and June 25, 2009. The analytical results from the 1998 background soil sample, presented in Table 1 below, are considered background soil concentrations and 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 2020). The background values presented in the Background Sampling Report (Arcadis 2021) have not yet been approved. Once approved, the previously approved background concentration data from 1998 will be 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 landfarms operation to prevent further contamination and, if necessary, a plan for remediating existing contamination”.

The first semi-annual 2021 soil sampling event was performed in June 2021. Results of the vadose zone sampling showed that chloride concentrations were detected above the background soil concentration in Cells 17, 18, 19, 20, 25, and 26; therefore, the release response process was initiated. CEMC notified the NMOCD of the exceedances and a release response sampling event was performed in October 2021.

The purpose of this document is to provide a summary of the June 2021 vadose zone sampling event and the October 2021 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.

2 June 2021 Vadose Zone Sampling

The June 2021 vadose zone sampling event was performed from June 16 through 22, 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 June 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 decontaminated following removal of treatment zone soil and before excavation of native soil using a pressure washer with alconox solution. The backhoe was then used to excavate a shallow hole to a depth of approximately 3 to 4 feet below native ground surface. 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 approved decontamination procedures.

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 June 2021 Vadose Zone Sampling Results

Analytical results from the June 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*: DRO, GRO, and ORO concentrations were below the SDL or background soil concentration in all 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, 25, and 26.

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3 Release Response Soil Sampling

Release response sampling was performed in response to chloride detected at concentrations above the currently recognized background soil concentration in the vadose zone. On October 5 through 7, 2021, four randomly selected, discrete vadose zone soil samples were collected from Cells 17, 18, 19, 20, 25, and 26 following the same methodology as described in Section 2. The October 2021 sample locations are shown on Figure 2. Arcadis received clarification from the NMOCD after the October 2021 release response sampling event 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 will implement this revised randomized sampling approach moving forward as required.

The 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 October 2021 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 1998 background soil concentrations listed in Table 1 or the SDL. The results are summarized below.

- *TPH*: DRO, GRO, and ORO concentrations were below the background soil concentration or SDL in all cells.
- *BTEX*: BTEX concentrations were below the background soil concentrations in all cells.
- *Chloride*: Chloride concentrations were detected above the soil background concentration in Cells 17, 18, 19, 20, and 25.
- *Constituents listed in Subsections A and B* (see Table 11 below):
  - Metals. Antimony, barium, copper, iron, manganese, uranium, and zinc were detected at concentrations greater than the background soil concentrations or SDL in Cells 17, 18, 19, 20, 25, and 26. Beryllium was detected at concentrations greater than the SDL in Cells 19, 20, 25, and 26. Lead was detected at concentrations greater than the background soil concentration in Cells 25 and 26. Chromium was detected above the background soil concentration in Cell 25.
  - Volatile organic compound (VOC) methylene chloride was detected at a concentration greater than the SDL in Cell 20.
  - Semi-volatile organic compound (SVOC) benzo(b)fluoranthene was detected at a concentration greater than the SDL in Cell 19.
  - Polychlorinated biphenyl (PCB) concentrations were below the SDL in all cells.

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- Other constituents, as listed below, were detected at concentrations greater than the SDL or background soil concentration in Cells 17, 18, 19, 20, 25, and/or 26:
  - Nitrate, nitrite, sulfate, fluoride, and total dissolved solids (TDS): Cells 17, 18, 19, 20, 25, and 26
  - Perchlorate: Cells 17, 18, 19, 20, and 26
  - Cyanide: Cells 18, 19, 25, and 26
- Radium, including combined Radium-226 and Radium-228, was detected above the minimum detectable concentration in all cells.
- Pesticide 4,4-DDT was detected at a concentration greater than the SDL in Cells 18, 19, and 25.

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

Cell	Metals	VOCs	SVOCs	PCBs	Other Constituents	Radium	Pesticides
Cell 17	Antimony, barium, copper, iron, manganese, uranium, zinc	None	None	None	Nitrate, nitrite, sulfate, fluoride, TDS, perchlorate	Combined Radmium-226 + 228	None
Cell 18	Antimony, barium, copper, iron, manganese, uranium, zinc	None	None	None	Nitrate, nitrite, sulfate, fluoride, cyanide, TDS, perchlorate	Combined Radmium-226 + 228	4,4-DDT
Cell 19	Antimony, barium, beryllium, copper, iron, manganese, uranium, zinc	None	Benzo(b)fluoranthene	None	Nitrate, nitrite, sulfate, fluoride, cyanide, TDS, perchlorate	Combined Radmium-226 + 228	4,4-DDT
Cell 20	Antimony, barium, beryllium, copper, iron, manganese, uranium, zinc	Methylene chloride	None	None	Nitrate, nitrite, sulfate, fluoride, TDS, perchlorate	Combined Radmium-226 + 228	None
Cell 25	Antimony, barium, beryllium, chromium, copper, iron, lead, manganese, uranium, zinc	None	None	None	Nitrate, nitrite, sulfate, fluoride, cyanide, TDS	Combined Radmium-226 + 228	4,4-DDT

Cell	Metals	VOCs	SVOCs	PCBs	Other Constituents	Radium	Pesticides
Cell 26	Antimony, barium, beryllium, copper, iron, lead, manganese, uranium, zinc	None	None	None	Nitrate, nitrite, sulfate, fluoride, cyanide, TDS, perchlorate	Combined Radmium-226 + 228	None

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4 Release Response Action Plan

The June 2021 and 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 weekly site inspections and maintenance (as needed).

5 References

Arcadis. 2019. Draft Minor Permit Modification Request, Jal Landfarm NM-02-0012, Centralized Surface Waste Management Facility, Lea County, New Mexico. June 27.

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.

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.

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

Tables

Table 2: June 2021 Vadose Zone Soil Sampling Analytical Results
Release Response Sampling Results and Action Plan - October 2021
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-Square120-S-3-4-210618	06/18/2021	21	U	21	U	21	U	63	--	0.000208	U	0.001	U	0.000337	U	0.00099	U	5.89	J
Cell 17	Vadose	Cell17-Square126-S-3-4-210618	06/18/2021	21	U	21	U	21	U	63	--	0.000693	J	0.00147	J	0.000347	J	0.00105	J	4.98	J
Cell 17	Vadose	Cell17-Square32-S-3-4-210618	06/18/2021	21.1	U	21.1	U	21	U	63	--	0.000209	U	0.00101	U	0.000339	U	0.00100	U	25	--
Cell 17	Vadose	Cell17-Square97-S-3-4-210618	06/18/2021	21.1	U	21.1	U	21	U	63	--	0.000205	U	0.00099	U	0.000332	U	0.00098	U	265	--
Cell 18	Vadose	Cell18-Square150-S-3-4-210618	06/18/2021	21	U	21	U	21	U	63	--	0.000209	U	0.00104	J	0.000339	U	0.000995	U	20.2	--
Cell 18	Vadose	Cell18-Square145-S-3-4-210618	06/18/2021	20.9	U	20.9	U	21	U	63	--	0.000209	U	0.00101	U	0.000339	U	0.00100	U	7.38	J
Cell 18	Vadose	Cell18-Square109-S-3-4-210618	06/18/2021	20.9	U	20.9	U	21	U	63	--	0.000208	U	0.00101	U	0.000338	U	0.00099	U	4.92	J
Cell 18	Vadose	Cell18-Square156-S-3-4-210618	06/18/2021	21	U	21	U	21	U	63	--	0.000205	U	0.00099	U	0.000332	U	0.00098	U	9.73	J
Cell 19	Vadose	Cell19-Square47-S-3-4-210618	06/18/2021	21.2	U	21.2	U	21	U	64	--	0.000823	J	0.000994	U	0.000334	U	0.00098	U	34.1	--
Cell 19	Vadose	Cell19-Square73-S-3-4-210618	06/18/2021	21	U	21	U	21	U	63	--	0.000629	J	0.00099	U	0.000332	U	0.00098	U	48.1	--
Cell 19	Vadose	Cell19-Square17-S-3-4-210618	06/18/2021	21.2	U	21.2	U	21	U	64	--	0.000206	U	0.000996	U	0.000334	U	0.00098	U	8.92	J
Cell 19	Vadose	Cell19-Square168-S-3-4-210618	06/18/2021	20.9	U	20.9	U	21	U	63	--	0.000205	U	0.00099	U	0.000332	U	0.00098	U	6.54	J
Cell 20	Vadose	Cell20-Square22-S-3-4-210616	06/16/2021	20.9	U	20.9	U	20.9	U	63	--	0.005130	U	0.02480	U	0.008330	U	0.02440	U	17.3	--
Cell 20	Vadose	Cell20-Square89-S-3-4-210616	06/16/2021	21	U	21	U	21	U	63	--	0.000207	U	0.00109	J	0.000335	U	0.00098	U	18.7	--
Cell 20	Vadose	Cell20-Square153-S-2-3-210616	06/16/2021	21	U	21	U	21	U	63	--	0.00517	U	0.025	U	0.00839	U	0.02460	U	9.30	J
Cell 20	Vadose	Cell20-Square118-S-2-3-210617	06/17/2021	21.1	U	21.1	U	21	U	63	--	0.000526	J	0.000994	U	0.000334	U	0.00098	U	5.19	J
Cell 21	Vadose	Cell21-Square180-S-3-4-210622	06/22/2021	21	U	21	U	21	U	63	--	0.00199	--	0.00603	--	0.00133	--	0.00790	--	4.81	J
Cell 21	Vadose	Cell21-Square83-S-3-4-210622	06/22/2021	21	U	21	U	20.9	U	63	--	0.00184	--	0.00523	--	0.00118	--	0.00683	--	5.21	J
Cell 21	Vadose	Cell21-Square35-S-3-4-210622	06/22/2021	21.2	U	21.2	U	21	U	64	--	0.000206	U	0.00129	J	0.000334	U	0.00131	J	5.71	J
Cell 21	Vadose	Cell21-Square65-S-3-4-210622	06/22/2021	21.2	U	21.2	U	21	U	64	--	0.000639	J	0.00134	J	0.000334	U	0.00138	J	5.16	J
Cell 25	Vadose	Cell25-Square14-S-3-4-210622	06/22/2021	21.1	U	21.1	U	21	U	63	--	0.00181	--	0.00585	--	0.00132	--	0.00794	--	150	--
Cell 25	Vadose	Cell25-Square198-S-3-4-210622	06/22/2021	21.2	U	21.2	U	21	U	64	--	0.000205	U	0.00133	J	0.000333	U	0.00108	J	4.96	J
Cell 25	Vadose	Cell25-Square75-S-3-4-210622	06/22/2021	21.3	U	21.3	U	21	U	64	--	0.00251	--	0.00883	--	0.00188	--	0.01090	--	7.52	J
Cell 25	Vadose	Cell25-Square67-S-3-4-210622	06/22/2021	21.1	U	21.1	U	21	U	63	--	0.00267	--	0.0089	--	0.00163	--	0.00922	--	5.68	J
Cell 26	Vadose	Cell26-Square134-S-3-4-210622	06/22/2021	20.9	U	20.9	U	21	U	63	--	0.000209	U	0.00101	U	0.000339	U	0.00105	J	18.9	--
Cell 26	Vadose	Cell26-Square49-S-3-4-210622	06/22/2021	21.2	U	21.2	U	21	U	64	--	0.000944	J	0.00101	U	0.000338	U	0.00099	U	99.6	--
Cell 26	Vadose	Cell26-Square32-S-3-4-210622	06/22/2021	21	U	21	U	21	U	63	--	0.000726	J	0.00277	J	0.000333	U	0.00098	U	8.20	J
Cell 26	Vadose	Cell26-Square206-S-3-4-210622	06/22/2021	21	U	21	U	21	U	63	--	0.000208	U	0.00101	U	0.000338	U	0.00099	U	3.93	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 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 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.

Table 3: October 2021 Vadose Zone Soil Sampling Analytical Results: TPH, BTEX, and Chloride
Release Response Sampling Results and Action Plan - October 2021
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	--		< 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	Cell17-119-S-3-4-211006	10/6/2021	21.2	U	21.2	U	21.2	U	63.6	--	0.000551	U	0.000787	U	0.000393	U	0.000437	U	282	--
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	21.0	U	21.0	U	21.0	U	63.0	--	0.000619	U	0.000884	U	0.000442	U	0.000491	U	148	--
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	21.1	U	21.1	U	21.1	U	63.3	--	0.000578	U	0.000826	U	0.000413	U	0.000459	U	7.78	J
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	21.1	U	21.1	U	21.1	U	63.3	--	0.000612	U	0.000874	U	0.000437	U	0.000485	U	814	--
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	21.1	U	21.1	U	21.1	U	63.3	--	0.000569	U	0.000812	U	0.000406	U	0.000451	U	20.8	--
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	21.1	U	21.1	U	21.1	U	63.3	--	0.000566	U	0.000808	U	0.000404	U	0.000449	U	7.41	J
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	21.0	U	21.0	U	21.0	U	63.0	--	0.000570	U	0.000814	U	0.000407	U	0.000452	U	161	--
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	21.0	U	21.0	U	21.0	U	63.0	--	0.000597	U	0.000852	U	0.000426	U	0.000473	U	19.1	--
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	20.9	U	20.9	U	20.9	U	62.7	--	0.000606	U	0.000865	U	0.000433	U	0.000481	U	7.70	J
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	21.3	U	21.3	U	21.3	U	63.9	--	0.000618	U	0.000882	U	0.000441	U	0.000490	U	15.3	--
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	21.1	U	21.1	U	21.1	U	63.3	--	0.000586	U	0.000836	U	0.000418	U	0.000465	U	10.4	--
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	21.1	U	21.1	U	21.1	U	63.3	--	0.000619	U	0.000884	U	0.000442	U	0.000491	U	11.5	--
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	20.9	U	20.9	U	20.9	U	62.7	--	0.000605	U	0.000864	U	0.000432	U	0.000480	U	8.12	J
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	21.1	U	21.1	U	21.1	U	63.3	--	0.000598	U	0.000854	U	0.000427	U	0.000939	J	9.57	J
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	21.4	U	21.4	U	21.4	U	64.2	--	0.000592	U	0.000846	U	0.000423	U	0.000744	J	14.1	--
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	20.9	U	20.9	U	20.9	U	62.7	--	0.000608	U	0.000869	U	0.000434	U	0.000483	U	10.7	--
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	21.0	U	21.0	U	21.0	U	63.0	--	0.000558	U	0.000796	U	0.000398	U	0.000442	U	5.77	J
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	27.4	U	27.4	U	27.4	U	82.2	--	0.000619	U	0.000884	U	0.000442	U	0.000491	U	16.2	--
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	21.3	U	21.3	U	21.3	U	63.9	--	0.000618	U	0.000882	U	0.000441	U	0.000490	U	6.00	J
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	21.6	U	21.6	U	21.6	U	64.8	--	0.000599	U	0.000856	U	0.000428	U	0.000475	U	3.55	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	21.1	U	21.1	U	21.1	U	63.3	--	0.000584	U	0.000835	U	0.000417	U	0.000464	U	3.54	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	21.2	U	21.2	U	21.2	U	63.6	--	0.000623	U	0.000889	U	0.000445	U	0.000494	U	3.96	J
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	21.1	U	21.1	U	21.1	U	63.3	--	0.000602	U	0.000860	U	0.000430	U	0.000478	U	6.35	J
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	20.9	U	20.9	U	20.9	U	62.7	--	0.000528	U	0.000754	U	0.000377	U	0.000419	U	7.84	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 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 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 background soil concentration 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.

Table 2: June 2021 Vadose Zone Soil Sampling Analytical Results
Release Response Sampling Results and Action Plan - October 2021
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-Square120-S-3-4-210618	06/18/2021	21	U	21	U	21	U	63	--	0.000208	U	0.001	U	0.000337	U	0.00099	U	5.89	J
Cell 17	Vadose	Cell17-Square126-S-3-4-210618	06/18/2021	21	U	21	U	21	U	63	--	0.000693	J	0.00147	J	0.000347	J	0.00105	J	4.98	J
Cell 17	Vadose	Cell17-Square32-S-3-4-210618	06/18/2021	21.1	U	21.1	U	21	U	63	--	0.000209	U	0.00101	U	0.000339	U	0.00100	U	25	--
Cell 17	Vadose	Cell17-Square97-S-3-4-210618	06/18/2021	21.1	U	21.1	U	21	U	63	--	0.000205	U	0.00099	U	0.000332	U	0.00098	U	265	--
Cell 18	Vadose	Cell18-Square150-S-3-4-210618	06/18/2021	21	U	21	U	21	U	63	--	0.000209	U	0.00104	J	0.000339	U	0.000995	U	20.2	--
Cell 18	Vadose	Cell18-Square145-S-3-4-210618	06/18/2021	20.9	U	20.9	U	21	U	63	--	0.000209	U	0.00101	U	0.000339	U	0.00100	U	7.38	J
Cell 18	Vadose	Cell18-Square109-S-3-4-210618	06/18/2021	20.9	U	20.9	U	21	U	63	--	0.000208	U	0.00101	U	0.000338	U	0.00099	U	4.92	J
Cell 18	Vadose	Cell18-Square156-S-3-4-210618	06/18/2021	21	U	21	U	21	U	63	--	0.000205	U	0.00099	U	0.000332	U	0.00098	U	9.73	J
Cell 19	Vadose	Cell19-Square47-S-3-4-210618	06/18/2021	21.2	U	21.2	U	21	U	64	--	0.000823	J	0.000994	U	0.000334	U	0.00098	U	34.1	--
Cell 19	Vadose	Cell19-Square73-S-3-4-210618	06/18/2021	21	U	21	U	21	U	63	--	0.000629	J	0.00099	U	0.000332	U	0.00098	U	48.1	--
Cell 19	Vadose	Cell19-Square17-S-3-4-210618	06/18/2021	21.2	U	21.2	U	21	U	64	--	0.000206	U	0.000996	U	0.000334	U	0.00098	U	8.92	J
Cell 19	Vadose	Cell19-Square168-S-3-4-210618	06/18/2021	20.9	U	20.9	U	21	U	63	--	0.000205	U	0.00099	U	0.000332	U	0.00098	U	6.54	J
Cell 20	Vadose	Cell20-Square22-S-3-4-210616	06/16/2021	20.9	U	20.9	U	20.9	U	63	--	0.005130	U	0.02480	U	0.008330	U	0.02440	U	17.3	--
Cell 20	Vadose	Cell20-Square89-S-3-4-210616	06/16/2021	21	U	21	U	21	U	63	--	0.000207	U	0.00109	J	0.000335	U	0.00098	U	18.7	--
Cell 20	Vadose	Cell20-Square153-S-2-3-210616	06/16/2021	21	U	21	U	21	U	63	--	0.00517	U	0.025	U	0.00839	U	0.02460	U	9.30	J
Cell 20	Vadose	Cell20-Square118-S-2-3-210617	06/17/2021	21.1	U	21.1	U	21	U	63	--	0.000526	J	0.000994	U	0.000334	U	0.00098	U	5.19	J
Cell 21	Vadose	Cell21-Square180-S-3-4-210622	06/22/2021	21	U	21	U	21	U	63	--	0.00199	--	0.00603	--	0.00133	--	0.00790	--	4.81	J
Cell 21	Vadose	Cell21-Square83-S-3-4-210622	06/22/2021	21	U	21	U	20.9	U	63	--	0.00184	--	0.00523	--	0.00118	--	0.00683	--	5.21	J
Cell 21	Vadose	Cell21-Square35-S-3-4-210622	06/22/2021	21.2	U	21.2	U	21	U	64	--	0.000206	U	0.00129	J	0.000334	U	0.00131	J	5.71	J
Cell 21	Vadose	Cell21-Square65-S-3-4-210622	06/22/2021	21.2	U	21.2	U	21	U	64	--	0.000639	J	0.00134	J	0.000334	U	0.00138	J	5.16	J
Cell 25	Vadose	Cell25-Square14-S-3-4-210622	06/22/2021	21.1	U	21.1	U	21	U	63	--	0.00181	--	0.00585	--	0.00132	--	0.00794	--	150	--
Cell 25	Vadose	Cell25-Square198-S-3-4-210622	06/22/2021	21.2	U	21.2	U	21	U	64	--	0.000205	U	0.00133	J	0.000333	U	0.00108	J	4.96	J
Cell 25	Vadose	Cell25-Square75-S-3-4-210622	06/22/2021	21.3	U	21.3	U	21	U	64	--	0.00251	--	0.00883	--	0.00188	--	0.01090	--	7.52	J
Cell 25	Vadose	Cell25-Square67-S-3-4-210622	06/22/2021	21.1	U	21.1	U	21	U	63	--	0.00267	--	0.0089	--	0.00163	--	0.00922	--	5.68	J
Cell 26	Vadose	Cell26-Square134-S-3-4-210622	06/22/2021	20.9	U	20.9	U	21	U	63	--	0.000209	U	0.00101	U	0.000339	U	0.00105	J	18.9	--
Cell 26	Vadose	Cell26-Square49-S-3-4-210622	06/22/2021	21.2	U	21.2	U	21	U	64	--	0.000944	J	0.00101	U	0.000338	U	0.00099	U	99.6	--
Cell 26	Vadose	Cell26-Square32-S-3-4-210622	06/22/2021	21	U	21	U	21	U	63	--	0.000726	J	0.00277	J	0.000333	U	0.00098	U	8.20	J
Cell 26	Vadose	Cell26-Square206-S-3-4-210622	06/22/2021	21	U	21	U	21	U	63	--	0.000208	U	0.00101	U	0.000338	U	0.00099	U	3.93	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 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 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.

Table 4: October 2021 Vadose Zone Soil Sampling Analytical Results: Metals
Release Response Sampling Results and Action Plan - October 2021
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		--		< 5.0		45.0		--		< 2.0		6.1		--		--		< 5.0	
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	Cell17-119-S-3-4-211006	10/6/2021	0.112	U	3.53	J	206	--	0.175	U	0.109	U	1.28	J	1.16	J	1,010	--	0.966	J
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	0.116	J	2.01	J	205	--	0.165	U	0.104	U	1.87	J	1.26	J	1,660	--	1.44	J
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	0.110	U	2.40	J	302	--	0.171	U	0.107	U	1.84	J	1.57	J	1,480	--	1.18	J
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	0.123	J	3.18	J	283	--	0.160	U	0.100	U	2.31	J	1.44	J	2,070	--	1.23	J
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	0.110	U	2.18	J	149	--	0.171	U	0.107	U	1.24	J	1.00	J	982	--	0.753	J
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	0.114	J	2.24	J	191	--	0.171	U	0.107	U	2.07	J	1.45	J	1,540	--	1.07	J
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	0.169	J	3.74	--	357	--	0.171	U	0.107	U	2.12	J	1.36	J	1,880	--	1.36	J
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	0.137	J	2.49	J	254	--	0.165	U	0.104	U	2.13	J	1.35	J	1,890	--	1.18	J
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	0.110	U	2.33	J	168	--	0.215	J	0.107	U	3.89	--	2.28	J	3,230	--	3.00	--
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	0.130	J	2.28	J	170	--	0.171	U	0.107	U	1.40	J	1.03	J	1,170	--	0.903	J
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	0.104	U	2.18	J	262	--	0.162	U	0.102	U	1.57	J	1.32	J	1,260	--	1.03	J
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	0.104	U	1.69	J	162	--	0.162	U	0.102	U	2.84	J	1.53	J	2,350	--	1.66	J
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	0.108	U	1.68	J	62.0	--	0.168	U	0.105	U	2.84	J	1.54	J	2,450	--	1.96	--
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	0.117	U	1.03	J	33.3	--	0.181	U	0.114	U	1.90	J	0.995	J	1,670	--	2.12	--
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	0.174	J	2.09	J	73.5	--	0.245	J	0.114	U	4.88	--	3.01	J	4,370	--	3.03	--
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	0.127	J	1.47	J	73.5	--	0.168	U	0.105	U	2.85	J	1.58	J	2,410	--	1.84	--
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	0.108	U	2.55	J	415	--	0.168	U	0.106	J	2.80	J	2.18	J	2,480	--	1.90	--
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	0.208	J	2.74	J	39.2	--	0.405	J	0.109	U	12.3	--	3.24	J	8,170	--	4.76	--
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	0.206	J	3.14	J	44.2	--	0.434	J	0.112	U	8.08	--	3.12	J	7,730	--	5.14	--
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	0.214	J	3.25	J	44.2	--	0.442	J	0.105	U	8.63	--	3.17	J	8,030	--	4.77	--
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	0.131	J	1.87	J	203	--	0.216	J	0.134	J	3.24	J	2.31	J	2,890	--	2.28	--
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	0.149	J	1.42	J	75.5	--	0.175	U	0.231	J	2.64	J	2.65	J	2,450	--	6.08	--
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	0.118	J	1.94	J	164	--	0.165	U	0.104	U	1.66	J	0.984	J	1,450	--	1.43	J
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	0.104	U	3.01	J	255	--	0.162	U	0.102	U	1.78	J	1.14	J	1,590	--	1.16	J

Notes:

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2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.
3. Detected values highlighted in grey exceed the soil background concentration or SDL.

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Table 4: October 2021 Vadose Zone Soil Sampling Analytical Results: Metals
Release Response Sampling Results and Action Plan - October 2021
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		--		< 0.25		--		< 5.0		< 5.0		--		--	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	14.8	b	0.00588	J	0.364	J	0.468	U	0.150	U	0.225	U	7.91	b
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	22.0	b	0.00755	J	0.267	J	0.443	U	0.142	U	0.213	U	7.74	b
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	19.5	b	0.00827	J	0.341	J	0.459	U	0.147	U	0.221	U	14.3	b
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	21.6	b	0.00981	J	0.441	J	0.428	U	0.137	U	0.206	U	14.2	b
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	12.2	b	0.0196	--	0.217	J	0.459	U	0.147	U	0.221	U	30.4	b
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	18.3	b	0.00654	J	0.289	J	0.459	U	0.147	U	0.221	U	12.7	b
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	21.1	b	0.00529	J	0.397	J	0.459	U	0.147	U	0.221	U	10.5	b
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	18.5	b	0.00780	J	0.379	J	0.443	U	0.142	U	0.213	U	8.68	b
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	47.1	--	0.00370	U	0.206	J	0.459	U	0.147	U	0.221	U	11.1	--
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	14.2	b	0.00445	J	0.329	J	0.459	U	0.147	U	0.221	U	31.6	b
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	19.1	--	0.00391	J	0.328	J	0.435	U	0.139	U	0.210	U	5.11	--
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	27.4	--	0.00363	U	0.221	J	0.435	U	0.139	U	0.210	U	8.37	--
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	29.1	--	0.00356	U	0.176	J	0.451	U	0.144	U	0.217	U	21.7	--
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	21.0	--	0.00356	U	0.0912	J	0.486	U	0.156	U	0.234	U	5.83	--
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	52.4	--	0.00363	U	0.196	J	0.486	U	0.156	U	0.234	U	16.1	--
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	35.0	--	0.00377	U	0.133	J	0.451	U	0.144	U	0.217	U	10.8	--
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	36.5	b	0.00736	J	0.392	J	0.451	U	0.144	U	0.217	U	12.0	b
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	86.8	b	0.0116	J	0.261	J	0.468	U	0.150	U	0.225	U	28.1	b
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	75.7	b	0.0152	J	0.245	J	0.477	U	0.153	U	0.230	U	21.8	b
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	76.1	b	0.0130	J	0.171	J	0.451	U	0.144	U	0.217	U	31.4	b
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	40.8	b	0.0111	J	0.283	J	0.459	U	0.147	U	0.221	U	10.1	b
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	39.5	b	0.0107	J	0.251	J	0.468	U	0.150	U	0.225	U	777	b
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	40.9	b	0.00745	J	0.357	J	0.443	U	0.142	U	0.213	U	10.8	b
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	15.5	b	0.0130	J	0.438	J	0.435	U	0.139	U	0.210	U	7.55	b

Notes:

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

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Qualifiers:
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Table 5: October 2021 Vadose Zone Soil Sampling Analytical Results: VOCs
Release Response Sampling Results and Action Plan - October 2021
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	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	0.000437	U	0.000332	U	0.000437	U	0.000516	U	0.000437	U	0.000848	U	0.000219	U
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	0.000491	U	0.000373	U	0.000491	U	0.00058	U	0.000491	U	0.000953	U	0.000246	U
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	0.000459	U	0.000349	U	0.000459	U	0.000541	U	0.000459	U	0.000890	U	0.000229	U
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	0.000485	U	0.000369	U	0.000485	U	0.000573	U	0.000485	U	0.000942	U	0.000243	U
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	0.000451	U	0.000343	U	0.000451	U	0.000532	U	0.000451	U	0.000875	U	0.000226	U
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	0.000449	U	0.000341	U	0.000449	U	0.000530	U	0.000449	U	0.000871	U	0.000224	U
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	0.000452	U	0.000344	U	0.000452	U	0.000533	U	0.000452	U	0.000877	U	0.000226	U
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	0.000473	U	0.000360	U	0.000473	U	0.000559	U	0.000473	U	0.000919	U	0.000237	U
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	0.000481	U	0.000365	U	0.000481	U	0.000567	U	0.000481	U	0.000933	U	0.000240	U
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	0.000490	U	0.000373	U	0.000490	U	0.000578	U	0.000490	U	0.000951	U	0.000245	U
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	0.000465	U	0.000353	U	0.000465	U	0.000548	U	0.000465	U	0.000901	U	0.000232	U
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	0.000491	U	0.000373	U	0.000491	U	0.000580	U	0.000491	U	0.000953	U	0.000246	U
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	0.000480	U	0.000365	U	0.000480	U	0.000566	U	0.000480	U	0.000931	U	0.000240	U
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	0.000474	U	0.000361	U	0.000474	U	0.000560	U	0.000474	U	0.000920	U	0.000237	U
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	0.000470	U	0.000357	U	0.000470	U	0.000555	U	0.000470	U	0.000912	U	0.000235	U
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	0.000483	U	0.000367	U	0.000483	U	0.000569	U	0.000483	U	0.000936	U	0.000241	U
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	0.000442	U	0.000336	U	0.000442	U	0.000522	U	0.000442	U	0.000858	U	0.000221	U
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	0.000491	U	0.000373	U	0.000491	U	0.00058	U	0.000491	U	0.000953	U	0.000246	U
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	0.000490	U	0.000373	U	0.000490	U	0.000578	U	0.000490	U	0.000951	U	0.000245	U
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	0.000475	U	0.000361	U	0.000475	U	0.000561	U	0.000475	U	0.000922	U	0.000238	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	0.000464	U	0.000353	U	0.000464	U	0.000547	U	0.000464	U	0.00090	U	0.000232	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	0.000494	U	0.000375	U	0.000494	U	0.000583	U	0.000494	U	0.000958	U	0.000247	U
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	0.000478	U	0.000363	U	0.000478	U	0.000564	U	0.000478	U	0.000927	U	0.000239	U
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	0.000419	U	0.000318	U	0.000419	U	0.000494	U	0.000419	U	0.000812	U	0.000209	U

Notes:

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3. Detected values highlighted in grey exceed the SDL.

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

Qualifiers:

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an estimated value.
b = The compound was found in the blank and sample.
U = Analyte was not detected at or above the SDL.
* = RPD of the LCS and LCSD exceeds the control limits.

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Table 5: October 2021 Vadose Zone Soil Sampling Analytical Results: VOCs
Release Response Sampling Results and Action Plan - October 2021
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	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	0.000262	U	0.000455	U	0.000437	U	0.00028	U	0.000446	U	0.00076	U	0.000498	U
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	0.000295	U	0.000511	U	0.000491	U	0.000314	U	0.000501	U	0.000855	U	0.000560	U
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	0.000275	U	0.000477	U	0.000459	U	0.000294	U	0.000468	U	0.000798	U	0.000523	U
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	0.000291	U	0.000505	U	0.000485	U	0.000311	U	0.000495	U	0.000845	U	0.000553	U
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	0.000271	U	0.000469	U	0.000451	U	0.000289	U	0.000460	U	0.000785	U	0.000514	U
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	0.000269	U	0.000467	U	0.000449	U	0.000287	U	0.000458	U	0.000781	U	0.000512	U
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	0.000271	U	0.000470	U	0.000452	U	0.000289	U	0.000461	U	0.000787	U	0.000515	U
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	0.000284	U	0.000492	U	0.000473	U	0.000303	U	0.000483	U	0.000824	U	0.000540	U
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	0.000288	U	0.000500	U	0.000481	U	0.000308	U	0.000490	U	0.000837	U	0.000548	U
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	0.000294	U	0.000510	U	0.000490	U	0.000314	U	0.000500	U	0.000853	U	0.000559	U
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	0.000279	U	0.000483	U	0.000465	U	0.000297	U	0.000474	U	0.000809	U	0.000530	U
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	0.000295	U	0.000511	U	0.000491	U	0.000314	U	0.000501	U	0.000855	U	0.000560	U
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	0.000288	U	0.000499	U	0.000480	U	0.000307	U	0.000489	U	0.000835	U	0.000547	U
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	0.000285	U	0.000493	U	0.000474	U	0.000304	U	0.000484	U	0.000825	U	0.000541	U
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	0.000282	U	0.000489	U	0.000470	U	0.000301	U	0.000479	U	0.000818	U	0.000536	U
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	0.000290	U	0.000502	U	0.000483	U	0.000309	U	0.000492	U	0.000840	U	0.000550	U
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	0.000265	U	0.00046	U	0.000442	U	0.000283	U	0.000451	U	0.000770	U	0.000504	U
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	0.000295	U	0.000511	U	0.000491	U	0.000314	U	0.000501	U	0.000855	U	0.000560	U
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	0.000294	U	0.000510	U	0.000490	U	0.000314	U	0.000500	U	0.000853	U	0.000559	U
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	0.000285	U	0.000494	U	0.000475	U	0.000304	U	0.000485	U	0.000827	U	0.000542	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	0.000278	U	0.000482	U	0.000464	U	0.000297	U	0.000473	U	0.000807	U	0.000529	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	0.000296	U	0.000514	U	0.000494	U	0.000316	U	0.000504	U	0.000860	U	0.000563	U
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	0.000287	U	0.000497	U	0.000478	U	0.000306	U	0.000488	U	0.000832	U	0.000545	U
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	0.000251	U	0.000436	U	0.000419	U	0.000268	U	0.000427	U	0.000729	U	0.000477	U

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Table 5: October 2021 Vadose Zone Soil Sampling Analytical Results: VOCs
Release Response Sampling Results and Action Plan - October 2021
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	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	0.00437	U	0.000533	U	0.000262	U	0.000647	U	0.000437	U	0.000245	U	0.000524	U
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	0.00491	U	0.000599	U	0.000295	U	0.000727	U	0.000491	U	0.000275	U	0.000589	U
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	0.00459	U	0.000560	U	0.000275	U	0.000679	U	0.000459	U	0.000257	U	0.000550	U
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	0.00485	U	0.000592	U	0.000291	U	0.000718	U	0.000485	U	0.000272	U	0.000583	U
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	0.00451	U	0.000551	U	0.000271	U	0.000668	U	0.000451	U	0.000253	U	0.000542	U
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	0.00449	U	0.000548	U	0.000269	U	0.000664	U	0.000449	U	0.000251	U	0.000539	U
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	0.00452	U	0.000552	U	0.000271	U	0.000669	U	0.000452	U	0.000253	U	0.000542	U
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	0.00473	U	0.000578	U	0.000284	U	0.000701	U	0.000473	U	0.000265	U	0.000568	U
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	0.00481	U	0.000587	U	0.000288	U	0.000712	U	0.000481	U	0.000269	U	0.000577	U
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	0.00490	U	0.000598	U	0.000294	U	0.000725	U	0.000490	U	0.000275	U	0.000588	U
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	0.00465	U	0.000567	U	0.000279	U	0.000688	U	0.000465	U	0.000260	U	0.000558	U
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	0.00491	U	0.000599	U	0.000295	U	0.000727	U	0.000491	U	0.000275	U	0.000589	U
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	0.00480	U	0.000585	U	0.000288	U	0.000710	U	0.000480	U	0.000269	U	0.000576	U
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	0.00519	J b	0.000579	U	0.000285	U	0.000702	U	0.000474	U	0.000266	U	0.000569	U
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	0.00470	U	0.000573	U	0.000282	U	0.000695	U	0.000470	U	0.000263	U	0.000564	U
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	0.00492	J b	0.000589	U	0.000290	U	0.000714	U	0.000483	U	0.000270	U	0.000579	U
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	0.004420	U	0.000540	U	0.000265	U	0.000655	U	0.000442	U	0.000248	U	0.000531	U
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	0.004910	U	0.000599	U	0.000295	U	0.000727	U	0.000491	U	0.000275	U	0.000589	U
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	0.004900	U	0.000598	U	0.000294	U	0.000725	U	0.000490	U	0.000275	U	0.000588	U
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	0.004750	U	0.000580	U	0.000285	U	0.000703	U	0.000475	U	0.000266	U	0.000570	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	0.00464	U	0.000566	U	0.000278	U	0.000686	U	0.000464	U	0.000260	U	0.000557	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	0.00494	U	0.000603	U	0.000296	U	0.000731	U	0.000494	U	0.000277	U	0.000593	U
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	0.00478	U	0.000583	U	0.000287	U	0.000707	U	0.000478	U	0.000268	U	0.000574	U
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	0.00419	U	0.000511	U	0.000251	U	0.000620	U	0.000419	U	0.000235	U	0.000503	U

Notes:

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3. Detected values highlighted in grey exceed the SDL.

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

Qualifiers:

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an estimated value.
b = The compound was found in the blank and sample.
U = Analyte was not detected at or above the SDL.
* = RPD of the LCS and LCSD exceeds the control limits.

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Table 5: October 2021 Vadose Zone Soil Sampling Analytical Results: VOCs
Release Response Sampling Results and Action Plan - October 2021
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	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	0.000446	U	0.00752	U	0.00315	U	0.000175	U	0.000962	U	0.00105	U	0.000437	U
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	0.000501	U	0.00845	U	0.00354	U	0.000196	U	0.00108	U	0.00118	U	0.000491	U
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	0.000468	U	0.00789	U	0.00330	U	0.000183	U	0.00101	U	0.00110	U	0.000459	U
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	0.000495	U	0.00835	U	0.00350	U	0.000194	U	0.00107	U	0.00117	U	0.000485	U
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	0.000460	U	0.00776	U	0.00325	U	0.000181	U	0.000993	U	0.00108	U	0.000451	U
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	0.000458	U	0.00772	U	0.00323	U	0.000180	U	0.000987	U	0.00108	U	0.000449	U
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	0.000461	U	0.00778	U	0.00325	U	0.000181	U	0.000995	U	0.00108	U	0.000452	U
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	0.000483	U	0.00814	U	0.00341	U	0.000189	U	0.00104	U	0.00114	U	0.000473	U
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	0.00049	U	0.00827	U	0.00346	U	0.000192	U	0.00106	U	0.00115	U	0.000481	U
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	0.000500	U	0.00843	U	0.00353	U	0.000196	U	0.00108	U	0.00118	U	0.000490	U
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	0.000474	U	0.00799	U	0.00335	U	0.000186	U	0.00102	U	0.00112	U	0.000465	U
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	0.000501	U	0.00845	U	0.00354	U	0.000196	U	0.00108	U	0.00118	U	0.000491	U
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	0.000489	U	0.00825	U	0.00345	U	0.000192	U	0.00106	U	0.00115	U	0.000480	U
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	0.000484	U	0.00816	U	0.00342	U	0.00019	U	0.00104	U	0.00114	U	0.000474	U
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	0.000479	U	0.00808	U	0.00338	U	0.000188	U	0.00103	U	0.00113	U	0.000470	U
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	0.000492	U	0.00830	U	0.00347	U	0.000193	U	0.00106	U	0.00116	U	0.000483	U
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	0.000451	U	0.00761	U	0.00319	U	0.000177	U	0.000973	U	0.00106	U	0.000442	U
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	0.000501	U	0.00845	U*	0.00354	U	0.000196	U	0.00108	U	0.00118	U	0.000491	U
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	0.000500	U	0.00843	U	0.00353	U	0.000196	U	0.00108	U	0.00118	U	0.000490	U
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	0.000485	U	0.00817	U	0.00342	U	0.000190	U	0.00105	U	0.00114	U	0.000475	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	0.000473	U	0.00798	U	0.00334	U	0.000186	U	0.00102	U	0.00111	U	0.000464	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	0.000504	U	0.00850	U	0.00356	U	0.000198	U	0.00109	U	0.00119	U	0.000494	U
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	0.000488	U	0.00822	U	0.00344	U	0.000191	U	0.00105	U	0.00115	U	0.000478	U
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	0.000427	U	0.00720	U	0.00302	U	0.000168	U	0.000921	U	0.00101	U	0.000419	U

Notes:

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3. Detected values highlighted in grey exceed the SDL.

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

Qualifiers:

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an estimated value.
b = The compound was found in the blank and sample.
U = Analyte was not detected at or above the SDL.
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Table 5: October 2021 Vadose Zone Soil Sampling Analytical Results: VOCs
Release Response Sampling Results and Action Plan - October 2021
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	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	0.0166	U	0.000393	U	0.000455	U	0.000455	U	0.000455	U	0.000638	U
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	0.0187	U	0.000442	U	0.000511	U	0.000511	U	0.000511	U	0.000717	U
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	0.0174	U	0.000413	U	0.000477	U	0.000477	U	0.000477	U	0.000670	U
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	0.0184	U	0.000437	U	0.000505	U	0.000505	U	0.000505	U	0.000709	U
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	0.0171	U	0.000406	U	0.000469	U	0.000469	U	0.000469	U	0.000659	U
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	0.0171	U	0.000404	U	0.000467	U	0.000467	U	0.000467	U	0.000655	U
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	0.0172	U	0.000407	U	0.000470	U	0.000470	U	0.000470	U	0.000660	U
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	0.0180	U	0.000426	U	0.000492	U	0.000492	U	0.000492	U	0.000691	U
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	0.0183	U	0.000433	U	0.000500	U	0.000500	U	0.000500	U	0.000702	U
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	0.0186	U	0.000441	U	0.000510	U	0.000510	U	0.000510	U	0.000716	U
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	0.0177	U	0.000418	U	0.000483	U	0.000483	U	0.000483	U	0.000678	U
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	0.0187	U	0.000442	U	0.000511	U	0.000511	U	0.000511	U	0.000717	U
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	0.0182	U	0.000432	U	0.000499	U	0.000499	U	0.000499	U	0.000701	U
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	0.0180	U	0.000427	U	0.000493	U	0.000493	U	0.000493	U	0.000693	U
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	0.0179	U	0.000423	U	0.000489	U	0.000489	U	0.000489	U	0.000686	U
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	0.0183	U	0.000434	U	0.000502	U	0.000502	U	0.000502	U	0.000705	U
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	0.0168	U	0.000398	U	0.000460	U	0.000460	U	0.000460	U	0.000646	U
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	0.0187	U	0.000442	U	0.000511	U	0.000511	U	0.000511	U	0.000717	U
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	0.0186	U	0.000441	U	0.000510	U	0.000510	U	0.000510	U	0.000716	U
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	0.0181	U	0.000428	U	0.000494	U	0.000494	U	0.000494	U	0.000694	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	0.0176	U	0.000417	U	0.000482	U	0.000482	U	0.000482	U	0.000677	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	0.0188	U	0.000445	U	0.000514	U	0.000514	U	0.000514	U	0.000721	U
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	0.0182	U	0.000430	U	0.000497	U	0.000497	U	0.000497	U	0.000698	U
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	0.0159	U	0.000377	U	0.000436	U	0.000436	U	0.000436	U	0.000611	U

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Table 6: October 2021 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - October 2021
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	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	0.0266	U	0.0451	U	0.0155	U	0.0147	U	0.0138	U	0.0165	U	0.0140	U
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	0.0266	U	0.0451	U	0.0155	U	0.0147	U	0.0138	U	0.0165	U	0.0140	U
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	0.0266	U	0.0451	U	0.0155	U	0.0147	U	0.0138	U	0.0165	U	0.0140	U
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	0.0266	U	0.0451	U	0.0155	U	0.0147	U	0.0138	U	0.0165	U	0.0140	U
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0140	U
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	0.0266	U	0.0451	U	0.0155	U	0.0147	U	0.0138	U	0.0165	U	0.0140	U
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	0.0266	U	0.0451	U	0.0155	U	0.0147	U	0.0138	U	0.0165	U	0.0140	U
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	0.0267	U	0.0452	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	0.0266	U	0.0451	U	0.0155	U	0.0147	U	0.0138	U	0.0165	U	0.0140	U
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0140	U

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Table 6: October 2021 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - October 2021
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	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	0.0172	U	0.0125	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	0.0172	U	0.0125	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	0.0172	U	0.0125	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	0.0172	U	0.0125	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	0.0172	U	0.0181	J	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	0.0172	U	0.0125	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	0.0172	U	0.0125	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	0.0172	U	0.0126	U	0.0153	U	0.0194	U	0.0165	U	0.0127	U	0.0147	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	0.0172	U	0.0125	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U

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Table 6: October 2021 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - October 2021
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	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0146	U	0.0121	U	0.0164	U
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0146	U	0.0121	U	0.0164	U
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0146	U	0.0121	U	0.0164	U
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0146	U	0.0121	U	0.0164	U
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0146	U	0.0121	U	0.0164	U
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0146	U	0.0121	U	0.0164	U
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0146	U	0.0121	U	0.0164	U
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U

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Release Response Sampling Results and Action Plan - October 2021
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	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0177	U	0.0152	U
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0177	U	0.0152	U
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	0.0162	U	0.0159	U	0.0174	U	0.0191	U	0.0157	U	0.0178	U	0.0152	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0177	U	0.0152	U
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U

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Table 6: October 2021 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - October 2021
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	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	0.0172	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	0.0172	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	0.0172	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U

Notes:

1. Non-detect values are reported to the 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.
3. Detected values highlighted in grey exceed the SDL.

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

Qualifiers:

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an estimated value.
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Table 6: October 2021 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - October 2021
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	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	0.0127	U	0.0232	U	0.0242	U	0.0185	U	0.166	U	0.016	U	0.0153	U
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.166	U	0.016	U	0.0153	U
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	0.0127	U	0.0232	U	0.0242	U	0.0185	U	0.166	U	0.016	U	0.0153	U
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.166	U	0.016	U	0.0153	U
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.166	U	0.016	U	0.0153	U
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.166	U	0.016	U	0.0153	U
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.166	U	0.016	U	0.0153	U
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.016	U	0.0153	U
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	0.0127	U	0.0232	U	0.0242	U	0.0185	U	0.166	U	0.016	U	0.0153	U
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.166	U	0.016	U	0.0153	U

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Table 6: October 2021 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - October 2021
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	
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	Cell17-119-S-3-4-211006	10/6/2021	0.0158	U	0.0121	U	0.0154	U	0.0173	U	0.0145	U	0.0138	U	0.332	U	0.000262	U
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	0.0159	U	0.0121	U	0.0154	U	0.0173	U	0.0145	U	0.0138	U	0.332	U	0.000295	U
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000275	U
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000291	U
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	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	Cell18-45-S-3-4-211006	10/6/2021	0.0158	U	0.0121	U	0.0154	U	0.0173	U	0.0145	U	0.0138	U	0.332	U	0.000269	U
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	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	Cell18-8-S-3-4-211006	10/6/2021	0.0159	U	0.0121	U	0.0154	U	0.0173	U	0.0145	U	0.0138	U	0.332	U	0.000284	U
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000288	U
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	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 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	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 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	0.0159	U	0.0121	U	0.0154	U	0.0173	U	0.0145	U	0.0138	U	0.332	U	0.000295	U
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000288	U
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000285	U
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	0.0159	U	0.0121	U	0.0154	U	0.0173	U	0.0145	U	0.0138	U	0.332	U	0.000282	U
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000290	U
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000265	U
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000295	U
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	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 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000285	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000278	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	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 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	0.0158	U	0.0121	U	0.0154	U	0.0173	U	0.0145	U	0.0138	U	0.332	U	0.000287	U
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000251	U

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Table 7: October 2021 Vadose Zone Soil Sampling Analytical Results: PCBs
Release Response Sampling Results and Action Plan - October 2021
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	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	0.00457	U	0.00457	U	0.00457	U	0.00457	U	0.00457	U	0.00301	U	0.00301	U
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	0.00536	U	0.00536	U	0.00536	U	0.00536	U	0.00536	U	0.00353	U	0.00353	U
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	0.00515	U	0.00515	U	0.00515	U	0.00515	U	0.00515	U	0.00340	U	0.00340	U
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	0.00453	U	0.00453	U	0.00453	U	0.00453	U	0.00453	U	0.00299	U	0.00299	U
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	0.00441	U	0.00441	U	0.00441	U	0.00441	U	0.00441	U	0.00291	U	0.00291	U
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	0.00555	U	0.00555	U	0.00555	U	0.00555	U	0.00555	U	0.00366	U	0.00366	U
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	0.00436	U	0.00436	U	0.00436	U	0.00436	U	0.00436	U	0.00287	U	0.00287	U
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	0.00538	U	0.0054	U	0.00538	U	0.00538	U	0.00538	U	0.00355	U	0.00355	U
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	0.00457	U	0.00457	U	0.00457	U	0.00457	U	0.00457	U	0.00301	U	0.00301	U
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	0.00449	U	0.00449	U	0.00449	U	0.00449	U	0.00449	U	0.00296	U	0.00296	U
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	0.00509	U	0.00509	U	0.00509	U	0.00509	U	0.00509	U	0.00336	U	0.00336	U
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	0.00466	U	0.00466	U	0.00466	U	0.00466	U	0.00466	U	0.00307	U	0.00307	U
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	0.00481	U	0.00481	U	0.00481	U	0.00481	U	0.00481	U	0.00317	U	0.00317	U
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	0.00419	U	0.00419	U	0.00419	U	0.00419	U	0.00419	U	0.00276	U	0.00276	U
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	0.00516	U	0.00516	U	0.00516	U	0.00516	U	0.00516	U	0.00340	U	0.00340	U
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	0.00431	U	0.00431	U	0.00431	U	0.00431	U	0.00431	U	0.00284	U	0.00284	U
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	0.00415	U	0.00415	U	0.00415	U	0.00415	U	0.00415	U	0.00273	U	0.00273	U
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	0.00547	U	0.00547	U	0.00547	U	0.00547	U	0.00547	U	0.00360	U	0.00360	U
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	0.00449	U	0.00449	U	0.00449	U	0.00449	U	0.00449	U	0.00296	U	0.00296	U
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	0.0046	U	0.00460	U	0.00460	U	0.00460	U	0.00460	U	0.00303	U	0.00303	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	0.00432	U	0.00432	U	0.00432	U	0.00432	U	0.00432	U	0.00285	U	0.00285	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	0.00456	U	0.00456	U	0.00456	U	0.00456	U	0.00456	U	0.00301	U	0.00301	U
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	0.00531	U	0.00531	U	0.00531	U	0.00531	U	0.00531	U	0.00350	U	0.00350	U
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	0.00508	U	0.00508	U	0.00508	U	0.00508	U	0.00508	U	0.00335	U	0.00335	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)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.
3. Detected values highlighted in grey exceed the SDL.

-- = 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.

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Table 8: October 2021 Vadose Zone Soil Sampling Analytical Results: Other Constituents
Release Response Sampling Results and Action Plan - October 2021
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		SW8270	
Units				mg/kg		mg/kg		mg/kg		mg/kg		SU		%		%		mg/kg		mg/kg	
Background Soil Concentration				2.2		--		15.0		1.7		--						--		--	
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	Cell17-119-S-3-4-211006	10/6/2021	32.5	--	0.391	J	86.3	--	4.81	J	9.4	--	--	--	--	--	0.0299	U	0.0149	U
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	32.7	--	0.432	J	161	--	4.04	J	8.7	H	--	--	--	--	0.0298	U	0.0149	U
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	16.6	--	0.474	J	72.1	--	4.38	J	8.8	H	--	--	--	--	0.0298	U	0.0150	U
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	17.3	--	0.0817	J	127	--	5.86	--	8.1	H	--	--	--	--	0.0298	U	0.0150	U
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	24.7	--	0.461	J	145	--	3.40	J	9.3	--	--	--	--	--	0.0298	U	0.0149	U
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	8.09	--	0.471	J	60.7	--	2.65	J	9.0	--	--	--	--	--	0.0322	J	0.0149	U
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	38.5	--	0.437	J	230	--	4.05	J	8.5	H	--	--	--	--	0.0297	U	0.0150	U
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	39.9	--	0.530	J	201	--	5.46	--	9.0	--	--	--	--	--	0.0297	U	0.0149	U
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	3.15	--	0.648	J	72.1	--	2.90	J	9.1	--	--	--	--	--	0.0298	U	0.0149	U
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	11.0	--	0.407	J	229	--	4.30	J	8.7	--	--	--	--	--	0.066	--	0.0150	U
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	4.93	--	0.592	J	109	--	5.26	--	9.3	--	--	--	--	--	0.0298	U	0.0150	U
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	6.07	--	0.735	J	82.6	--	4.87	J	9.1	--	--	--	--	--	0.0298	U	0.0149	U
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	3.52	--	0.499	J	1,060	--	3.15	J	8.8	--	--	--	--	--	0.0298	U	0.0150	U
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	13.2	--	0.615	J	529	--	4.42	J	8.5	--	--	--	--	--	0.0297	U	0.0150	U
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	5.52	--	0.752	J	94.6	--	1.97	J	8.9	--	--	--	--	--	0.0298	U	0.0149	U
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	7.13	--	0.591	J	454	--	4.03	J	8.8	--	--	--	--	--	0.0298	U	0.0150	U
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	3.19	--	0.444	J	25.6	--	3.11	J	8.8	H	--	--	--	--	0.0298	U	0.0150	U
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	1.84	--	0.184	J b	4.36	U	1.53	J	8.2	--	--	--	--	--	0.0391	J	0.0150	U
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	1.69	--	0.227	J b	30.9	--	2.59	J	8.0	--	--	--	--	--	0.0475	J	0.0149	U
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	1.63	--	0.526	J b	26.8	--	1.24	J	8.4	--	--	--	--	--	0.0443	J	0.0150	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	2.28	--	0.535	J b	43.8	--	1.98	J	9.0	HF	--	--	--	--	0.159	--	0.0149	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	7.86	--	0.492	J b	83.3	--	6.39	--	8.8	HF	--	--	--	--	0.0315	J	0.0149	U
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	7.21	--	0.399	J b	59.8	--	4.51	J	8.9	HF	--	--	--	--	0.109	--	0.0149	U
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	7.23	--	0.395	J b	37.9	--	3.86	J	9.0	HF	--	--	--	--	0.0335	J	0.0149	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)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.

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

-- = not applicable
% = percent
CCV = continuing calibration verification
ICV = initial calibration verification
ID = identification
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
RL = reporting limit
SDL = sample detection limit
SU = standard unit
QC = quality control

Qualifiers:

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an estimated value.
H = Sample was prepped or analyzed beyond the specified holding time.
b = The compound was found in the blank and sample.
E= Result is greater then the UQL and the concentration is an estimated value.
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.

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Table 8: October 2021 Vadose Zone Soil Sampling Analytical Results: Other Constituents
Release Response Sampling Results and Action Plan - October 2021
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		E537-LL		E537-LL	
		Units	mg/L		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentration	--		--		--		--		--		--		--	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	436	--	0.028	U	0.0393	U	0.0207	U	0.000114	J	0.000278	U	0.000228	U
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	498	--	0.0302	U	0.0423	U	0.0223	U	0.000254	J	0.000278	U	0.000228	U
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	344	--	0.0289	U	0.0405	U	0.0214	U	0.0000843	J	0.00026	U	0.000214	U
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	718	--	0.0287	U	0.0402	U	0.0212	U	0.000504	--	0.000264	U	0.000217	U
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	253	--	0.0295	U	0.0413	U	0.0218	U	0.000296	J	0.000267	U	0.000219	U
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	272	--	0.0301	U	0.0422	U	0.0223	U	0.0000950	J	0.000268	U	0.000221	U
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	247	--	0.0305	U	0.0427	U	0.0225	U	0.000247	J	0.000264	U	0.000217	U
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	186	--	0.0306	U	0.0428	U	0.0226	U	0.000507	--	0.000263	U	0.000216	U
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	181	--	0.0289	U	0.0404	U	0.0213	U	0.000111	J	0.000273	U	0.000224	U
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	170	--	0.0302	U	0.0423	U	0.0223	U	0.000156	J	0.000273	U	0.000224	U
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	193	--	0.0284	U	0.0398	U	0.021	U	0.000195	J	0.000278	U	0.000229	U
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	173	--	0.0297	U	0.0416	U	0.022	U	0.000140	J	0.000262	U	0.000216	U
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	348	--	0.028	U	0.0392	U	0.0207	U	0.0000804	U	0.000258	U	0.000212	U
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	249	--	0.03	U	0.0421	U	0.0222	U	0.0000900	J	0.000279	U	0.000229	U
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	160	--	0.0295	U	0.0413	U	0.0218	U	0.0000806	U	0.000276	U	0.000226	U
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	285	--	0.0286	U	0.04	U	0.0211	U	0.000148	J	0.000277	U	0.000227	U
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	617	--	0.028	U	0.0392	U	0.0207	U	0.0000788	U	0.000271	U	0.000222	U
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	1,030	--	0.0287	U	0.0401	U	0.0212	U	0.0000792	U	0.000272	U	0.000224	U
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	3,580	E	0.0289	U	0.0405	U	0.0214	U	0.0000774	U	0.000268	U	0.00022	U
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	198	--	0.0299	U	0.0419	U	0.0221	U	0.0000813	U	0.000272	U	0.000223	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	172	--	0.0303	U	0.0424	U	0.0224	U	0.0000767	U	0.000269	U	0.000221	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	128	--	0.03	U	0.042	U	0.0221	U	0.0000779	U	0.000272	U	0.000223	U
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	157	--	0.0281	U	0.0394	U	0.0208	U	0.0000982	J	0.000256	U	0.00021	U
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	129	--	0.0288	U	0.0403	U	0.0213	U	0.000197	J	0.000267	U	0.00022	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)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.

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

-- = not applicable
% = percent
CCV = continuing calibration verification
ICV = initial calibration verification
ID = identification
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
RL = reporting limit
SDL = sample detection limit
SU = standard unit
QC = quality control

Qualifiers:

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an estimated value.
H = Sample was prepped or analyzed beyond the specified holding time.
b = The compound was found in the blank and sample.
E= Result is greater then the UQL and the concentration is an estimated value.
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.

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Table 9: October 2021 Vadose Zone Soil Sampling Analytical Results: Radium
Release Response Sampling Results and Action Plan - October 2021
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	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	1.01	--	0.0942	U	1.10	--
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	0.936	--	0.383	--	1.32	--
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	0.995	--	0.111	U	1.11	--
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	1.09	--	0.0456	U	1.14	--
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	1.26	--	0.181	U	1.44	--
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	0.793	--	0.0562	U	0.849	--
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	1.46	--	0.128	U	1.58	--
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	0.524	--	0.223	--	0.747	--
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	0.363	--	0.303	--	0.666	--
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	0.484	--	0.120	U	0.604	--
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	0.590	--	0.0843	U	0.675	--
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	0.315	--	0.341	--	0.656	--
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	0.380	--	0.280	--	0.660	--
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	0.428	--	0.0629	U	0.491	--
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	0.471	--	0.408	--	0.879	--
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	0.357	--	0.337	--	0.693	--
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	0.380	--	0.0875	U	0.468	--
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	0.212	U	0.629	--	0.841	--
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	0.639	--	0.808	--	1.45	--
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	0.550	--	0.415	--	0.965	--
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	0.445	--	0.338	--	0.782	--
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	0.558	--	0.541	--	1.10	--
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	0.418	--	0.162	U	0.580	--
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	1.14	--	0.0949	U	1.24	--

Notes:
1. Non-detect values are reported to the MDC specified in the laboratory reports.
2. Detected values highlighted in grey exceed the MDC.

-- = 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.

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Table 10: October 2021 Vadose Zone Soil Sampling Analytical Results: Pesticides
Release Response Sampling Results and Action Plan - October 2021
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																	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	0.000363	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	0.000363	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	0.000362	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	0.000362	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	0.000363	U	0.0239	U	0.000254	U	0.00017	U	--	--	0.000373	U	0.000202	U
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	0.000363	U	0.0239	U	0.000281	J	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	0.000362	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	0.000363	U	0.0239	U	0.000312	J	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	0.000363	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	0.000363	U	0.0239	U	0.000286	J	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	0.000363	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	0.000363	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	0.000363	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	0.000362	U	0.0239	U	0.000446	J	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	0.000362	U	0.0239	U	0.000446	J	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	0.000363	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	0.000363	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000201	U
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	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)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.
3. Detected values highlighted in grey exceed the SDL.

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

Qualifiers:

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

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Table 10: October 2021 Vadose Zone Soil Sampling Analytical Results: Pesticides
Release Response Sampling Results and Action Plan - October 2021
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															
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	0.000291	U	0.000562	U	0.00068	U	0.000473	U	0.000833	U	0.000438	U
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	0.000291	U	0.000562	U	0.00068	U	0.000473	U	0.000833	U	0.000438	U
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	0.000291	U	0.000562	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	0.000291	U	0.000562	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	0.000291	U	0.000563	U	0.000681	U	0.000474	U	0.000834	U	0.000439	U
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	0.000291	U	0.000562	U	0.00068	U	0.000473	U	0.000833	U	0.000438	U
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	0.000291	U	0.000562	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	0.000291	U	0.000562	U	0.00068	U	0.000474	U	0.000833	U	0.000439	U
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	0.000291	U	0.000562	U	0.00068	U	0.000473	U	0.000833	U	0.000438	U
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	0.000291	U	0.000562	U	0.00068	U	0.000474	U	0.000833	U	0.000439	U
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	0.000291	U	0.000562	U	0.00068	U	0.000473	U	0.000833	U	0.000438	U
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	0.00029	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	0.00029	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	0.00029	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	0.000291	U	0.000562	U	0.00068	U	0.000473	U	0.000833	U	0.000438	U
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	0.000291	U	0.000562	U	0.00068	U	0.000473	U	0.000833	U	0.000438	U
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	0.000291	U	0.000562	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	0.000291	U	0.000562	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	0.00029	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	0.000291	U	0.000562	U	0.00068	U	0.000474	U	0.000833	U	0.000439	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	0.000291	U	0.000562	U	0.00068	U	0.000473	U	0.000833	U	0.000438	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	0.00029	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	0.00029	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	0.00029	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	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)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.
3. Detected values highlighted in grey exceed the SDL.

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

Qualifiers:

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

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Table 10: October 2021 Vadose Zone Soil Sampling Analytical Results: Pesticides
Release Response Sampling Results and Action Plan - October 2021
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									
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	0.0113	U	0.0119	U	0.0152	U
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	0.0113	U	0.0118	U	0.0152	U
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	0.0113	U	0.0118	U	0.0152	U
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	0.0113	U	0.012	U	0.0152	U
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	0.0113	U	0.0118	U	0.0152	U
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	0.0113	U	0.0119	U	0.0152	U
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	0.0113	U	0.0119	U	0.0152	U
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	0.0113	U	0.0118	U	0.0152	U
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	0.0113	U	0.0238	U	0.0152	U
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	0.0113	U	0.0118	U	0.0152	U
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	0.0113	U	0.0239	U	0.0152	U
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	0.0113	U	0.024	U	0.0152	U
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	0.0113	U	0.0232	U	0.0152	U
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	0.0113	U	0.0235	U	0.0152	U
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	0.0113	U	0.0232	U	0.0152	U
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	0.0113	U	0.0236	U	0.0152	U
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	0.0113	U	0.0116	U	0.0152	U
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	0.0113	U	0.0118	U	0.0152	U
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	0.0113	U	0.0119	U	0.0152	U
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	0.0113	U	0.0118	U	0.0152	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	0.0113	U	0.0119	U	0.0152	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	0.0113	U	0.0119	U	0.0152	U
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	0.0113	U	0.0116	U	0.0152	U
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	0.0113	U	0.012	U	0.0152	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)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.

3. Detected values highlighted in grey exceed the SDL.

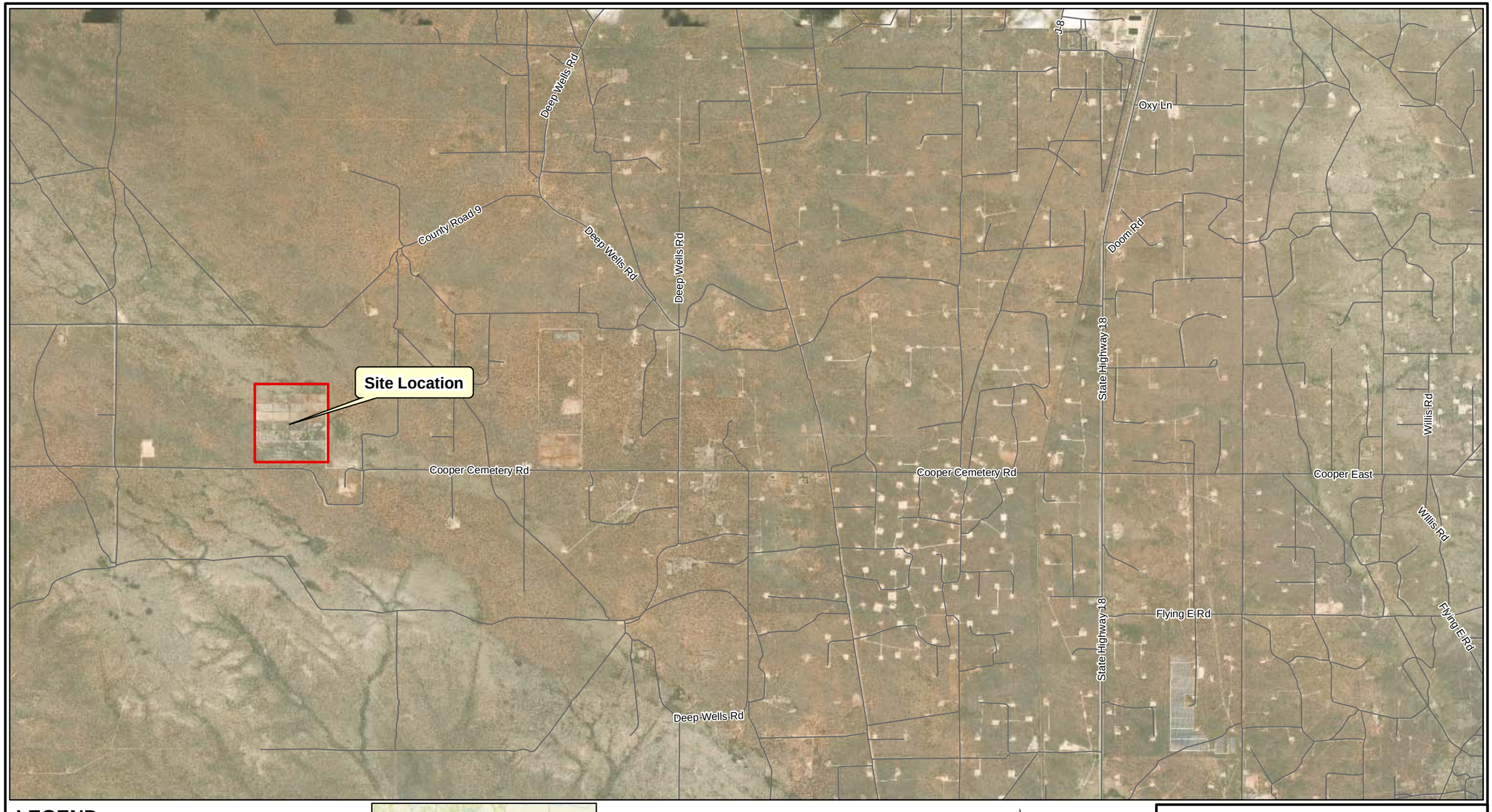
-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
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U = Analyte was not detected at or above the SDL.

Figures

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PATH: Z:\GISPROJECTS_ENV\CHEVRON_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

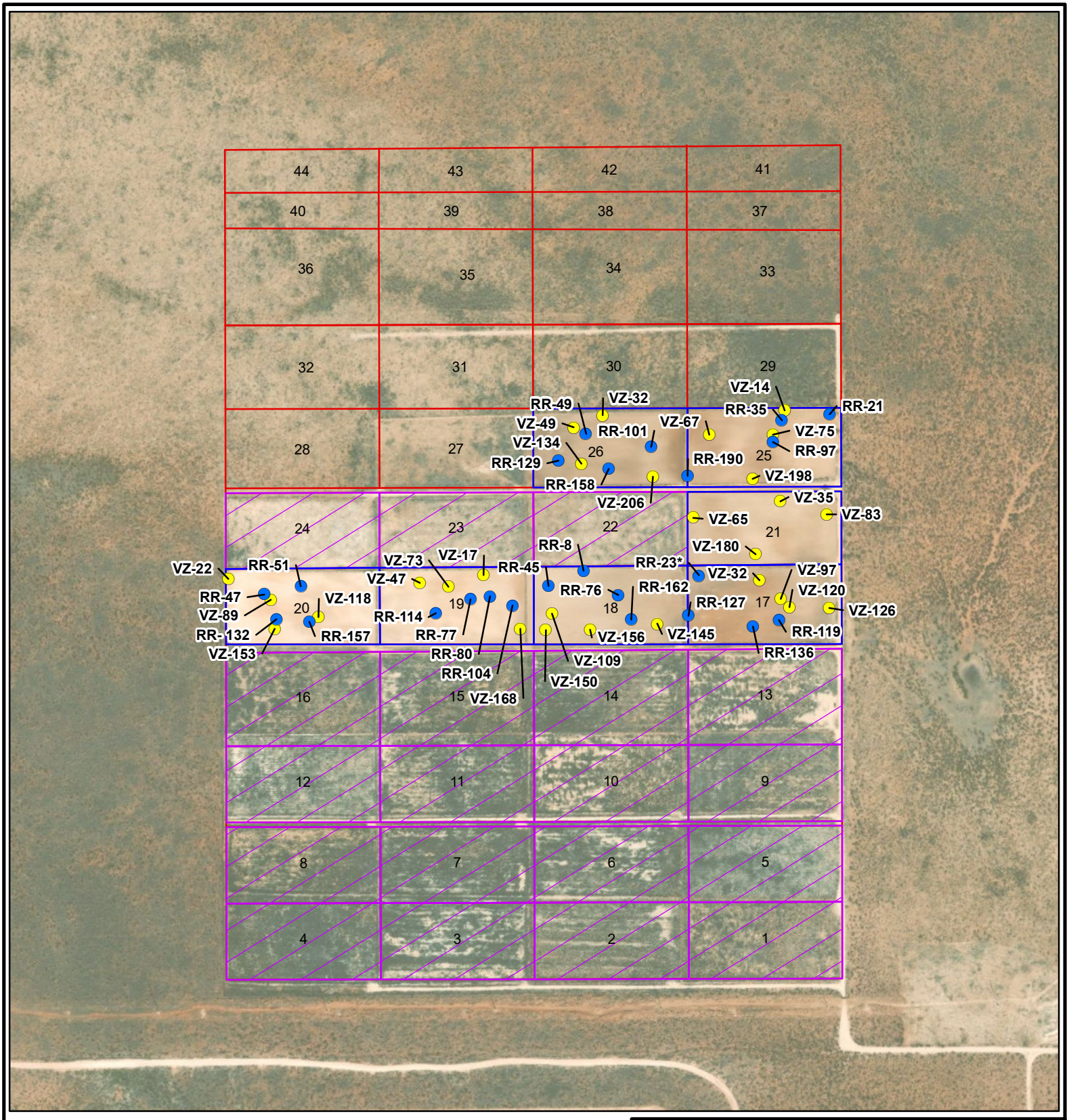
RELEASE RESPONSE SAMPLING RESULTS AND ACTION PLAN

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS\MXD\2021-12\FIG_2_SAMPLING_LOCATIONS_JUNE_2021.MXD SAVED: 12/22/2021 BY: KKELLEY



LEGEND

- Release Response Sample Locations (October 2021)
- Vadose Zone Sample Locations (June 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

JUNE 2021 AND RELEASE RESPONSE SAMPLE LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

Appendix A

June 2021 Laboratory Report

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-6149-1
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:
6/25/2021 12:22:41 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: 860-6149-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-6149-1
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.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
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: 860-6149-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-6149-1

Laboratory: Eurofins Xenco, Stafford

Narrative

Job Narrative
860-6149-1

Receipt
The samples were received on 6/17/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C

GC/MS VOA
Method 8260C: The following samples were diluted due to sample being a light soil/sand Cell20-Square22-S-3-4-210616 (860-6149-8) and (860-6149-B-8-C MS). Elevated reporting limits (RL) 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.

HPLC/IC
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: 860-6149-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Treatment-S-.5-210615 — Lab Sample ID: 860-6149-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	44.1		10.0	3.54	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell18-Treatment-S-.5-210615 — Lab Sample ID: 860-6149-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.74	J	9.96	3.53	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell19-Treatment-S-.5-210615 — Lab Sample ID: 860-6149-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.22	J	9.94	3.52	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell20-Treatment-S-.5-210615 — Lab Sample ID: 860-6149-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10.3		10.1	3.59	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell21-Treatment-S-.5-210615 — Lab Sample ID: 860-6149-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (Over C10-C28)	23.6	J	49.6	20.9	mg/Kg	1		8015B NM	Total/NA
Chloride	8.07	J	10.1	3.58	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell25-Treatment-S-.5-210615 — Lab Sample ID: 860-6149-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.58	J	10.0	3.55	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell26-Treatment-S-.5-210615 — Lab Sample ID: 860-6149-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.19	J	9.96	3.53	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell20-Square22-S-3-4-210616 — Lab Sample ID: 860-6149-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17.3		10.1	3.59	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell20-Square89-S-3-4-210616 — Lab Sample ID: 860-6149-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00109	J	0.00499	0.000998	mg/Kg	1		8260C	Total/NA
Total BTEX	0.00109	J	0.00499	0.000998	mg/Kg	1		8260C	Total/NA
Chloride	18.7		9.94	3.52	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell20-Square153-S-2-3-210616 — Lab Sample ID: 860-6149-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.30	J	10.1	3.57	mg/Kg	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Stafford

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6149-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Treatment-S-.5-210615 Lab Sample ID: 860-6149-1

Date Collected: 06/15/21 09:55 **Matrix: Solid**
Date Received: 06/17/21 10:30

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		06/22/21 10:08	06/24/21 14:41	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		06/22/21 10:08	06/24/21 14:41	1
OII Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		06/22/21 10:08	06/24/21 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*65 - 130*	*06/22/21 10:08*	*06/24/21 14:41*	*1*
o-Terphenyl	*119*		*65 - 130*	*06/22/21 10:08*	*06/24/21 14:41*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44.1**		10.0	3.54	mg/Kg		06/24/21 10:24	06/24/21 14:00	1

Client Sample ID: Cell18-Treatment-S-.5-210615 Lab Sample ID: 860-6149-2

Date Collected: 06/15/21 10:20 **Matrix: Solid**
Date Received: 06/17/21 10:30

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		06/21/21 17:09	06/22/21 10:54	1
Diesel Range Organics (Over C10-C28)	20.9	U	49.5	20.9	mg/Kg		06/21/21 17:09	06/22/21 10:54	1
OII Range Organics (Over C28-C36)	20.9	U	49.5	20.9	mg/Kg		06/21/21 17:09	06/22/21 10:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*65 - 130*	*06/21/21 17:09*	*06/22/21 10:54*	*1*
o-Terphenyl	*111*		*65 - 130*	*06/21/21 17:09*	*06/22/21 10:54*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.74**	**J**	9.96	3.53	mg/Kg		06/24/21 10:24	06/24/21 14:32	1

Client Sample ID: Cell19-Treatment-S-.5-210615 Lab Sample ID: 860-6149-3

Date Collected: 06/15/21 10:40 **Matrix: Solid**
Date Received: 06/17/21 10:30

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		06/21/21 17:09	06/22/21 11:55	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.7	21.0	mg/Kg		06/21/21 17:09	06/22/21 11:55	1
OII Range Organics (Over C28-C36)	21.0	U	49.7	21.0	mg/Kg		06/21/21 17:09	06/22/21 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*65 - 130*	*06/21/21 17:09*	*06/22/21 11:55*	*1*
o-Terphenyl	*108*		*65 - 130*	*06/21/21 17:09*	*06/22/21 11:55*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.22**	**J**	9.94	3.52	mg/Kg		06/24/21 10:24	06/24/21 15:03	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6149-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Treatment-S-.5-210615 Lab Sample ID: 860-6149-4

Date Collected: 06/15/21 11:32 **Matrix: Solid**
Date Received: 06/17/21 10:30

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		06/21/21 17:09	06/22/21 12:16	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		06/21/21 17:09	06/22/21 12:16	1
OII Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		06/21/21 17:09	06/22/21 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*65 - 130*	*06/21/21 17:09*	*06/22/21 12:16*	*1*
o-Terphenyl	*103*		*65 - 130*	*06/21/21 17:09*	*06/22/21 12:16*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.3**		10.1	3.59	mg/Kg		06/24/21 10:24	06/24/21 15:34	1

Client Sample ID: Cell21-Treatment-S-.5-210615 Lab Sample ID: 860-6149-5

Date Collected: 06/15/21 11:55 **Matrix: Solid**
Date Received: 06/17/21 10:30

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	49.6	20.9	mg/Kg		06/21/21 17:09	06/22/21 12:37	1
Diesel Range Organics (Over C10-C28)	**23.6**	**J**	49.6	20.9	mg/Kg		06/21/21 17:09	06/22/21 12:37	1
OII Range Organics (Over C28-C36)	20.9	U	49.6	20.9	mg/Kg		06/21/21 17:09	06/22/21 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*65 - 130*	*06/21/21 17:09*	*06/22/21 12:37*	*1*
o-Terphenyl	*106*		*65 - 130*	*06/21/21 17:09*	*06/22/21 12:37*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.07**	**J**	10.1	3.58	mg/Kg		06/24/21 10:24	06/24/21 15:44	1

Client Sample ID: Cell25-Treatment-S-.5-210615 Lab Sample ID: 860-6149-6

Date Collected: 06/15/21 12:15 **Matrix: Solid**
Date Received: 06/17/21 10:30

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		06/21/21 17:09	06/22/21 12:58	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		06/21/21 17:09	06/22/21 12:58	1
OII Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		06/21/21 17:09	06/22/21 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*65 - 130*	*06/21/21 17:09*	*06/22/21 12:58*	*1*
o-Terphenyl	*94*		*65 - 130*	*06/21/21 17:09*	*06/22/21 12:58*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.58**	**J**	10.0	3.55	mg/Kg		06/24/21 10:24	06/24/21 15:55	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6149-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Treatment-S-.5-210615 Lab Sample ID: 860-6149-7

Date Collected: 06/15/21 12:39 **Matrix: Solid**
Date Received: 06/17/21 10:30

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		06/21/21 17:09	06/22/21 13:19	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		06/21/21 17:09	06/22/21 13:19	1
OII Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		06/21/21 17:09	06/22/21 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*65 - 130*	*06/21/21 17:09*	*06/22/21 13:19*	*1*
o-Terphenyl	*103*		*65 - 130*	*06/21/21 17:09*	*06/22/21 13:19*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.19**	**J**	9.96	3.53	mg/Kg		06/24/21 10:24	06/24/21 16:05	1

Client Sample ID: Cell20-Square22-S-3-4-210616 Lab Sample ID: 860-6149-8

Date Collected: 06/16/21 10:30 **Matrix: Solid**
Date Received: 06/17/21 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00513	U	0.0248	0.00513	mg/Kg		06/23/21 18:10	06/24/21 12:50	25
Toluene	0.0248	U	0.124	0.0248	mg/Kg		06/23/21 18:10	06/24/21 12:50	25
Ethylbenzene	0.00833	U	0.0248	0.00833	mg/Kg		06/23/21 18:10	06/24/21 12:50	25
m,p-Xylenes	0.0198	U	0.0496	0.0198	mg/Kg		06/23/21 18:10	06/24/21 12:50	25
o-Xylene	0.0244	U	0.0248	0.0244	mg/Kg		06/23/21 18:10	06/24/21 12:50	25
Xylenes, Total	0.0244	U	0.0496	0.0244	mg/Kg		06/23/21 18:10	06/24/21 12:50	25
Total BTEX	0.0248	U	0.124	0.0248	mg/Kg		06/23/21 18:10	06/24/21 12:50	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*	*06/23/21 18:10*	*06/24/21 12:50*	*25*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*06/23/21 18:10*	*06/24/21 12:50*	*25*
Dibromofluoromethane (Surr)	*94*		*53 - 142*	*06/23/21 18:10*	*06/24/21 12:50*	*25*
Toluene-d8 (Surr)	*98*		*70 - 130*	*06/23/21 18:10*	*06/24/21 12:50*	*25*

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	49.6	20.9	mg/Kg		06/21/21 17:09	06/22/21 13:40	1
Diesel Range Organics (Over C10-C28)	20.9	U	49.6	20.9	mg/Kg		06/21/21 17:09	06/22/21 13:40	1
OII Range Organics (Over C28-C36)	20.9	U	49.6	20.9	mg/Kg		06/21/21 17:09	06/22/21 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*65 - 130*	*06/21/21 17:09*	*06/22/21 13:40*	*1*
o-Terphenyl	*103*		*65 - 130*	*06/21/21 17:09*	*06/22/21 13:40*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.3**		10.1	3.59	mg/Kg		06/24/21 10:24	06/24/21 16:16	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6149-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square89-S-3-4-210616 Lab Sample ID: 860-6149-9

Date Collected: 06/16/21 11:11 **Matrix: Solid**
Date Received: 06/17/21 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.000998	0.000207	mg/Kg		06/24/21 12:53	06/24/21 15:57	1
Toluene	**0.00109**	**J**	0.00499	0.000998	mg/Kg		06/24/21 12:53	06/24/21 15:57	1
Ethylbenzene	0.000335	U	0.000998	0.000335	mg/Kg		06/24/21 12:53	06/24/21 15:57	1
m,p-Xylenes	0.000798	U	0.00200	0.000798	mg/Kg		06/24/21 12:53	06/24/21 15:57	1
o-Xylene	0.000983	U	0.000998	0.000983	mg/Kg		06/24/21 12:53	06/24/21 15:57	1
Xylenes, Total	0.000983	U	0.00200	0.000983	mg/Kg		06/24/21 12:53	06/24/21 15:57	1
Total BTEX	**0.00109**	**J**	0.00499	0.000998	mg/Kg		06/24/21 12:53	06/24/21 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*	*06/24/21 12:53*	*06/24/21 15:57*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*06/24/21 12:53*	*06/24/21 15:57*	*1*
Dibromofluoromethane (Surr)	*94*		*53 - 142*	*06/24/21 12:53*	*06/24/21 15:57*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*06/24/21 12:53*	*06/24/21 15:57*	*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		06/21/21 17:09	06/22/21 14:02	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		06/21/21 17:09	06/22/21 14:02	1
OII Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		06/21/21 17:09	06/22/21 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*65 - 130*	*06/21/21 17:09*	*06/22/21 14:02*	*1*
o-Terphenyl	*102*		*65 - 130*	*06/21/21 17:09*	*06/22/21 14:02*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.7**		9.94	3.52	mg/Kg		06/24/21 10:24	06/24/21 16:26	1

Client Sample ID: Cell20-Square153-S-2-3-210616 Lab Sample ID: 860-6149-10

Date Collected: 06/16/21 12:30 **Matrix: Solid**
Date Received: 06/17/21 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00517	U	0.0250	0.00517	mg/Kg		06/23/21 18:10	06/24/21 15:17	25
Toluene	0.0250	U	0.125	0.0250	mg/Kg		06/23/21 18:10	06/24/21 15:17	25
Ethylbenzene	0.00839	U	0.0250	0.00839	mg/Kg		06/23/21 18:10	06/24/21 15:17	25
m,p-Xylenes	0.0200	U	0.0500	0.0200	mg/Kg		06/23/21 18:10	06/24/21 15:17	25
o-Xylene	0.0246	U	0.0250	0.0246	mg/Kg		06/23/21 18:10	06/24/21 15:17	25
Xylenes, Total	0.0246	U	0.0500	0.0246	mg/Kg		06/23/21 18:10	06/24/21 15:17	25
Total BTEX	0.0250	U	0.125	0.0250	mg/Kg		06/23/21 18:10	06/24/21 15:17	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*56 - 150*	*06/23/21 18:10*	*06/24/21 15:17*	*25*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*06/23/21 18:10*	*06/24/21 15:17*	*25*
Dibromofluoromethane (Surr)	*85*		*53 - 142*	*06/23/21 18:10*	*06/24/21 15:17*	*25*
Toluene-d8 (Surr)	*100*		*70 - 130*	*06/23/21 18:10*	*06/24/21 15:17*	*25*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6149-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square153-S-2-3-210616 **Lab Sample ID: 860-6149-10**
Date Collected: 06/16/21 12:30 **Matrix: Solid**
Date Received: 06/17/21 10:30

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		06/21/21 17:09	06/22/21 14:23	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		06/21/21 17:09	06/22/21 14:23	1
Oil Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		06/21/21 17:09	06/22/21 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*65 - 130*	*06/21/21 17:09*	*06/22/21 14:23*	*1*
o-Terphenyl	*107*		*65 - 130*	*06/21/21 17:09*	*06/22/21 14:23*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.30**	**J**	10.1	3.57	mg/Kg		06/24/21 10:24	06/24/21 16:36	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-6149-1
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)
860-6149-8	Cell20-Square22-S-3-4-210616	100	101	94	98
860-6149-8 MS	Cell20-Square22-S-3-4-210616	94	101	98	99
860-6149-9	Cell20-Square89-S-3-4-210616	100	102	94	97
860-6149-10	Cell20-Square153-S-2-3-210616	98	100	85	100
860-6149-10 MS	Cell20-Square153-S-2-3-210616	99	97	97	102
LCS 860-12520/4	Lab Control Sample	100	104	97	98
LCS 860-12564/3	Lab Control Sample	97	100	104	102
LCSD 860-12520/5	Lab Control Sample Dup	99	103	96	98
LCSD 860-12564/4	Lab Control Sample Dup	99	109	103	103
MB 860-12520/9	Method Blank	103	101	95	99
MB 860-12564/8	Method Blank	98	101	93	100

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)
860-6149-1	Cell17-Treatment-S-.5-210615	100	119
860-6149-2	Cell18-Treatment-S-.5-210615	100	111
860-6149-2 MS	Cell18-Treatment-S-.5-210615	114	112
860-6149-2 MSD	Cell18-Treatment-S-.5-210615	109	106
860-6149-3	Cell19-Treatment-S-.5-210615	99	108
860-6149-4	Cell20-Treatment-S-.5-210615	103	103
860-6149-5	Cell21-Treatment-S-.5-210615	95	106
860-6149-6	Cell25-Treatment-S-.5-210615	85	94
860-6149-7	Cell26-Treatment-S-.5-210615	98	103
860-6149-8	Cell20-Square22-S-3-4-210616	93	103
860-6149-9	Cell20-Square89-S-3-4-210616	97	102
860-6149-10	Cell20-Square153-S-2-3-210616	100	107
LCS 860-12120/2-A	Lab Control Sample	118	124
LCSD 860-12120/3-A	Lab Control Sample Dup	117	115
MB 860-12120/1-A	Method Blank	99	111

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-6149-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: 860-6149-8 MS
Matrix: Solid
Analysis Batch: 12520

Client Sample ID: Cell20-Square22-S-3-4-210616
Prep Type: Total/NA
Prep Batch: 12470

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.00513	U	1.24	1.264		mg/Kg		102	71 - 119
Toluene	0.0248	U	1.24	1.160		mg/Kg		94	74 - 122
Ethylbenzene	0.00833	U	1.24	1.277		mg/Kg		103	80 - 123
m,p-Xylenes	0.0198	U	2.48	2.528		mg/Kg		102	78 - 127
o-Xylene	0.0244	U	1.24	1.254		mg/Kg		101	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*56 - 150*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*
Dibromofluoromethane (Surr)	*98*		*53 - 142*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: 860-6149-10 MS
Matrix: Solid
Analysis Batch: 12564

Client Sample ID: Cell20-Square153-S-2-3-210616
Prep Type: Total/NA
Prep Batch: 12470

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.00517	U	1.25	1.083		mg/Kg		87	71 - 119
Toluene	0.0250	U	1.25	0.9097	N1	mg/Kg		73	74 - 122
Ethylbenzene	0.00839	U	1.25	1.030		mg/Kg		82	80 - 123
m,p-Xylenes	0.0200	U	2.50	1.955		mg/Kg		78	78 - 127
o-Xylene	0.0246	U	1.25	1.022		mg/Kg		82	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*
Dibromofluoromethane (Surr)	*97*		*53 - 142*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 860-12520/9
Matrix: Solid
Analysis Batch: 12520

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			06/24/21 12:30	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			06/24/21 12:30	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			06/24/21 12:30	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			06/24/21 12:30	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			06/24/21 12:30	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			06/24/21 12:30	1
Total BTEX	0.00100	U	0.00500	0.00100	mg/Kg			06/24/21 12:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*		*06/24/21 12:30*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*		*06/24/21 12:30*	*1*
Dibromofluoromethane (Surr)	*95*		*53 - 142*		*06/24/21 12:30*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*06/24/21 12:30*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-6149-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 860-12520/4
Matrix: Solid
Analysis Batch: 12520

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.04422		mg/Kg		88	66 - 142		
Toluene			0.0500	0.04016		mg/Kg		80	74 - 130		
Ethylbenzene			0.0500	0.04646		mg/Kg		93	80 - 130		
m,p-Xylenes			0.100	0.09175		mg/Kg		92	78 - 130		
o-Xylene			0.0500	0.04625		mg/Kg		92	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*
4-Bromofluorobenzene (Surr)	*104*		*68 - 152*
Dibromofluoromethane (Surr)	*97*		*53 - 142*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 860-12520/5
Matrix: Solid
Analysis Batch: 12520

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0500	0.04859		mg/Kg		97	66 - 142	9	25
Toluene			0.0500	0.04436		mg/Kg		89	74 - 130	10	25
Ethylbenzene			0.0500	0.04996		mg/Kg		100	80 - 130	7	25
m,p-Xylenes			0.100	0.09985		mg/Kg		100	78 - 130	8	25
o-Xylene			0.0500	0.04957		mg/Kg		99	79 - 130	7	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*
Dibromofluoromethane (Surr)	*96*		*53 - 142*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 860-12564/8
Matrix: Solid
Analysis Batch: 12564

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			06/24/21 14:57	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			06/24/21 14:57	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			06/24/21 14:57	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			06/24/21 14:57	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			06/24/21 14:57	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			06/24/21 14:57	1
Total BTEX	0.00100	U	0.00500	0.00100	mg/Kg			06/24/21 14:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*56 - 150*		*06/24/21 14:57*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*		*06/24/21 14:57*	*1*
Dibromofluoromethane (Surr)	*93*		*53 - 142*		*06/24/21 14:57*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*06/24/21 14:57*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6149-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 860-12564/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 12564

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.05305		mg/Kg		106	66 - 142		
Toluene			0.0500	0.04549		mg/Kg		91	74 - 130		
Ethylbenzene			0.0500	0.05166		mg/Kg		103	80 - 130		
m,p-Xylenes			0.100	0.09836		mg/Kg		98	78 - 130		
o-Xylene			0.0500	0.05139		mg/Kg		103	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*
Dibromofluoromethane (Surr)	*104*		*53 - 142*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 860-12564/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 12564

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0500	0.05263		mg/Kg		105	66 - 142	1	25
Toluene			0.0500	0.04512		mg/Kg		90	74 - 130	1	25
Ethylbenzene			0.0500	0.05211		mg/Kg		104	80 - 130	1	25
m,p-Xylenes			0.100	0.09863		mg/Kg		99	78 - 130	0	25
o-Xylene			0.0500	0.05145		mg/Kg		103	79 - 130	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*
4-Bromofluorobenzene (Surr)	*109*		*68 - 152*
Dibromofluoromethane (Surr)	*103*		*53 - 142*
Toluene-d8 (Surr)	*103*		*70 - 130*

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

Lab Sample ID: MB 860-12120/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 12161 **Prep Batch: 12120**

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		06/21/21 17:09	06/22/21 09:53	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		06/21/21 17:09	06/22/21 09:53	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		06/21/21 17:09	06/22/21 09:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*65 - 130*	*06/21/21 17:09*	*06/22/21 09:53*	*1*
o-Terphenyl	*111*		*65 - 130*	*06/21/21 17:09*	*06/22/21 09:53*	*1*

QC Sample Results

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

Job ID: 860-6149-1

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

Lab Sample ID: LCS 860-12120/2-A
Matrix: Solid
Analysis Batch: 12161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12120

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1012		mg/Kg		101	70 - 135		
Diesel Range Organics (Over C10-C28)			1000	1074		mg/Kg		107	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*118*		*65 - 130*
o-Terphenyl	*124*		*65 - 130*

Lab Sample ID: LCSD 860-12120/3-A
Matrix: Solid
Analysis Batch: 12161

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 12120

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	941.9		mg/Kg		94	70 - 135	7	35
Diesel Range Organics (Over C10-C28)			1000	1004		mg/Kg		100	70 - 135	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*117*		*65 - 130*
o-Terphenyl	*115*		*65 - 130*

Lab Sample ID: 860-6149-2 MS
Matrix: Solid
Analysis Batch: 12161

Client Sample ID: Cell18-Treatment-S-.5-210615
Prep Type: Total/NA
Prep Batch: 12120

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	20.9	U	1000	897.1		mg/Kg		90	70 - 135		
Diesel Range Organics (Over C10-C28)	20.9	U	1000	968.8		mg/Kg		97	70 - 135		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*114*		*65 - 130*
o-Terphenyl	*112*		*65 - 130*

Lab Sample ID: 860-6149-2 MSD
Matrix: Solid
Analysis Batch: 12161

Client Sample ID: Cell18-Treatment-S-.5-210615
Prep Type: Total/NA
Prep Batch: 12120

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	20.9	U	996	857.7		mg/Kg		86	70 - 135	4	35
Diesel Range Organics (Over C10-C28)	20.9	U	996	938.5		mg/Kg		94	70 - 135	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*109*		*65 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6149-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: 860-6149-2 MSD **Client Sample ID: Cell18-Treatment-S-.5-210615**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 12161 **Prep Batch: 12120**

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	106		65 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-12543/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 12515 **Prep Batch: 12543**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		06/24/21 10:24	06/24/21 10:29	1

Lab Sample ID: LCS 860-12543/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 12515 **Prep Batch: 12543**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			100	99.44		mg/Kg		99	80 - 120		

Lab Sample ID: LCSD 860-12543/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 12515 **Prep Batch: 12543**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	99.68		mg/Kg		100	80 - 120	0	20

Lab Sample ID: 860-6149-1 MS **Client Sample ID: Cell17-Treatment-S-.5-210615**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 12515 **Prep Batch: 12543**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	44.1		99.8	137.0		mg/Kg		93	80 - 120		

Lab Sample ID: 860-6149-1 MSD **Client Sample ID: Cell17-Treatment-S-.5-210615**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 12515 **Prep Batch: 12543**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	44.1		100	137.9		mg/Kg		94	80 - 120	1	20

Lab Sample ID: 860-6149-2 MS **Client Sample ID: Cell18-Treatment-S-.5-210615**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 12515 **Prep Batch: 12543**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	5.74	J	99.8	112.7		mg/Kg		107	80 - 120		

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6149-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-6149-2 MSD **Client Sample ID: Cell18-Treatment-S-.5-210615**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 12515 **Prep Batch: 12543**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.74	J	100	113.7		mg/Kg		108	80 - 120	1	20

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-6149-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 12470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6149-8	Cell20-Square22-S-3-4-210616	Total/NA	Solid	5030C	
860-6149-10	Cell20-Square153-S-2-3-210616	Total/NA	Solid	5030C	
860-6149-8 MS	Cell20-Square22-S-3-4-210616	Total/NA	Solid	5030C	
860-6149-10 MS	Cell20-Square153-S-2-3-210616	Total/NA	Solid	5030C	

Analysis Batch: 12520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6149-8	Cell20-Square22-S-3-4-210616	Total/NA	Solid	8260C	12470
MB 860-12520/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-12520/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-12520/5	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-6149-8 MS	Cell20-Square22-S-3-4-210616	Total/NA	Solid	8260C	12470

Analysis Batch: 12564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6149-9	Cell20-Square89-S-3-4-210616	Total/NA	Solid	8260C	12578
860-6149-10	Cell20-Square153-S-2-3-210616	Total/NA	Solid	8260C	12470
MB 860-12564/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-12564/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-12564/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-6149-10 MS	Cell20-Square153-S-2-3-210616	Total/NA	Solid	8260C	12470

Prep Batch: 12578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6149-9	Cell20-Square89-S-3-4-210616	Total/NA	Solid	5030C	

GC Semi VOA

Prep Batch: 12120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6149-1	Cell17-Treatment-S-.5-210615	Total/NA	Solid	8015NM Prep	
860-6149-2	Cell18-Treatment-S-.5-210615	Total/NA	Solid	8015NM Prep	
860-6149-3	Cell19-Treatment-S-.5-210615	Total/NA	Solid	8015NM Prep	
860-6149-4	Cell20-Treatment-S-.5-210615	Total/NA	Solid	8015NM Prep	
860-6149-5	Cell21-Treatment-S-.5-210615	Total/NA	Solid	8015NM Prep	
860-6149-6	Cell25-Treatment-S-.5-210615	Total/NA	Solid	8015NM Prep	
860-6149-7	Cell26-Treatment-S-.5-210615	Total/NA	Solid	8015NM Prep	
860-6149-8	Cell20-Square22-S-3-4-210616	Total/NA	Solid	8015NM Prep	
860-6149-9	Cell20-Square89-S-3-4-210616	Total/NA	Solid	8015NM Prep	
860-6149-10	Cell20-Square153-S-2-3-210616	Total/NA	Solid	8015NM Prep	
MB 860-12120/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-12120/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-12120/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
860-6149-2 MS	Cell18-Treatment-S-.5-210615	Total/NA	Solid	8015NM Prep	
860-6149-2 MSD	Cell18-Treatment-S-.5-210615	Total/NA	Solid	8015NM Prep	

Analysis Batch: 12161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6149-2	Cell18-Treatment-S-.5-210615	Total/NA	Solid	8015B NM	12120
860-6149-3	Cell19-Treatment-S-.5-210615	Total/NA	Solid	8015B NM	12120
860-6149-4	Cell20-Treatment-S-.5-210615	Total/NA	Solid	8015B NM	12120

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-6149-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Analysis Batch: 12161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6149-5	Cell21-Treatment-S-.5-210615	Total/NA	Solid	8015B NM	12120
860-6149-6	Cell25-Treatment-S-.5-210615	Total/NA	Solid	8015B NM	12120
860-6149-7	Cell26-Treatment-S-.5-210615	Total/NA	Solid	8015B NM	12120
860-6149-8	Cell20-Square22-S-3-4-210616	Total/NA	Solid	8015B NM	12120
860-6149-9	Cell20-Square89-S-3-4-210616	Total/NA	Solid	8015B NM	12120
860-6149-10	Cell20-Square153-S-2-3-210616	Total/NA	Solid	8015B NM	12120
MB 860-12120/1-A	Method Blank	Total/NA	Solid	8015B NM	12120
LCS 860-12120/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12120
LCSD 860-12120/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12120
860-6149-2 MS	Cell18-Treatment-S-.5-210615	Total/NA	Solid	8015B NM	12120
860-6149-2 MSD	Cell18-Treatment-S-.5-210615	Total/NA	Solid	8015B NM	12120

Analysis Batch: 12547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6149-1	Cell17-Treatment-S-.5-210615	Total/NA	Solid	8015B NM	12120

HPLC/IC

Analysis Batch: 12515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6149-1	Cell17-Treatment-S-.5-210615	Total/NA	Solid	300.0	12543
860-6149-2	Cell18-Treatment-S-.5-210615	Total/NA	Solid	300.0	12543
860-6149-3	Cell19-Treatment-S-.5-210615	Total/NA	Solid	300.0	12543
860-6149-4	Cell20-Treatment-S-.5-210615	Total/NA	Solid	300.0	12543
860-6149-5	Cell21-Treatment-S-.5-210615	Total/NA	Solid	300.0	12543
860-6149-6	Cell25-Treatment-S-.5-210615	Total/NA	Solid	300.0	12543
860-6149-7	Cell26-Treatment-S-.5-210615	Total/NA	Solid	300.0	12543
860-6149-8	Cell20-Square22-S-3-4-210616	Total/NA	Solid	300.0	12543
860-6149-9	Cell20-Square89-S-3-4-210616	Total/NA	Solid	300.0	12543
860-6149-10	Cell20-Square153-S-2-3-210616	Total/NA	Solid	300.0	12543
MB 860-12543/1-A	Method Blank	Total/NA	Solid	300.0	12543
LCS 860-12543/2-A	Lab Control Sample	Total/NA	Solid	300.0	12543
LCSD 860-12543/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	12543
860-6149-1 MS	Cell17-Treatment-S-.5-210615	Total/NA	Solid	300.0	12543
860-6149-1 MSD	Cell17-Treatment-S-.5-210615	Total/NA	Solid	300.0	12543
860-6149-2 MS	Cell18-Treatment-S-.5-210615	Total/NA	Solid	300.0	12543
860-6149-2 MSD	Cell18-Treatment-S-.5-210615	Total/NA	Solid	300.0	12543

Prep Batch: 12543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6149-1	Cell17-Treatment-S-.5-210615	Total/NA	Solid	300_Prep	
860-6149-2	Cell18-Treatment-S-.5-210615	Total/NA	Solid	300_Prep	
860-6149-3	Cell19-Treatment-S-.5-210615	Total/NA	Solid	300_Prep	
860-6149-4	Cell20-Treatment-S-.5-210615	Total/NA	Solid	300_Prep	
860-6149-5	Cell21-Treatment-S-.5-210615	Total/NA	Solid	300_Prep	
860-6149-6	Cell25-Treatment-S-.5-210615	Total/NA	Solid	300_Prep	
860-6149-7	Cell26-Treatment-S-.5-210615	Total/NA	Solid	300_Prep	
860-6149-8	Cell20-Square22-S-3-4-210616	Total/NA	Solid	300_Prep	
860-6149-9	Cell20-Square89-S-3-4-210616	Total/NA	Solid	300_Prep	
860-6149-10	Cell20-Square153-S-2-3-210616	Total/NA	Solid	300_Prep	
MB 860-12543/1-A	Method Blank	Total/NA	Solid	300_Prep	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-6149-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Prep Batch: 12543 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-12543/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-12543/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-6149-1 MS	Cell17-Treatment-S-.5-210615	Total/NA	Solid	300_Prep	
860-6149-1 MSD	Cell17-Treatment-S-.5-210615	Total/NA	Solid	300_Prep	
860-6149-2 MS	Cell18-Treatment-S-.5-210615	Total/NA	Solid	300_Prep	
860-6149-2 MSD	Cell18-Treatment-S-.5-210615	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-6149-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Treatment-S-.5-210615 Lab Sample ID: 860-6149-1

Date Collected: 06/15/21 09:55 **Matrix: Solid**
Date Received: 06/17/21 10:30

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	12120	06/22/21 10:08	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12547	06/24/21 14:41	IS	XEN STF
Total/NA	Prep	300_Prep			5.00 g	50 mL	12543	06/24/21 10:24	JM	XEN STF
Total/NA	Analysis	300.0		1			12515	06/24/21 14:00	WP	XEN STF

Client Sample ID: Cell18-Treatment-S-.5-210615 Lab Sample ID: 860-6149-2

Date Collected: 06/15/21 10:20 **Matrix: Solid**
Date Received: 06/17/21 10:30

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			10.10 g	10 mL	12120	06/21/21 17:09	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12161	06/22/21 10:54	IS	XEN STF
Total/NA	Prep	300_Prep			5.02 g	50 mL	12543	06/24/21 10:24	JM	XEN STF
Total/NA	Analysis	300.0		1			12515	06/24/21 14:32	WP	XEN STF

Client Sample ID: Cell19-Treatment-S-.5-210615 Lab Sample ID: 860-6149-3

Date Collected: 06/15/21 10:40 **Matrix: Solid**
Date Received: 06/17/21 10:30

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	12120	06/21/21 17:09	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12161	06/22/21 11:55	IS	XEN STF
Total/NA	Prep	300_Prep			5.03 g	50 mL	12543	06/24/21 10:24	JM	XEN STF
Total/NA	Analysis	300.0		1			12515	06/24/21 15:03	WP	XEN STF

Client Sample ID: Cell20-Treatment-S-.5-210615 Lab Sample ID: 860-6149-4

Date Collected: 06/15/21 11:32 **Matrix: Solid**
Date Received: 06/17/21 10:30

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	12120	06/21/21 17:09	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12161	06/22/21 12:16	IS	XEN STF
Total/NA	Prep	300_Prep			4.93 g	50 mL	12543	06/24/21 10:24	JM	XEN STF
Total/NA	Analysis	300.0		1			12515	06/24/21 15:34	WP	XEN STF

Client Sample ID: Cell21-Treatment-S-.5-210615 Lab Sample ID: 860-6149-5

Date Collected: 06/15/21 11:55 **Matrix: Solid**
Date Received: 06/17/21 10:30

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	12120	06/21/21 17:09	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12161	06/22/21 12:37	IS	XEN STF
Total/NA	Prep	300_Prep			4.95 g	50 mL	12543	06/24/21 10:24	JM	XEN STF
Total/NA	Analysis	300.0		1			12515	06/24/21 15:44	WP	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-6149-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Treatment-S-.5-210615 Lab Sample ID: 860-6149-6

Date Collected: 06/15/21 12:15 **Matrix: Solid**
Date Received: 06/17/21 10:30

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			10.05 g	10 mL	12120	06/21/21 17:09	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12161	06/22/21 12:58	IS	XEN STF
Total/NA	Prep	300_Prep			4.98 g	50 mL	12543	06/24/21 10:24	JM	XEN STF
Total/NA	Analysis	300.0		1			12515	06/24/21 15:55	WP	XEN STF

Client Sample ID: Cell26-Treatment-S-.5-210615 Lab Sample ID: 860-6149-7

Date Collected: 06/15/21 12:39 **Matrix: Solid**
Date Received: 06/17/21 10:30

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			9.99 g	10 mL	12120	06/21/21 17:09	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12161	06/22/21 13:19	IS	XEN STF
Total/NA	Prep	300_Prep			5.02 g	50 mL	12543	06/24/21 10:24	JM	XEN STF
Total/NA	Analysis	300.0		1			12515	06/24/21 16:05	WP	XEN STF

Client Sample ID: Cell20-Square22-S-3-4-210616 Lab Sample ID: 860-6149-8

Date Collected: 06/16/21 10:30 **Matrix: Solid**
Date Received: 06/17/21 10:30

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	12470	06/23/21 18:10	AW	XEN STF
Total/NA	Analysis	8260C		25	5 g	5 mL	12520	06/24/21 12:50	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	12120	06/21/21 17:09	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12161	06/22/21 13:40	IS	XEN STF
Total/NA	Prep	300_Prep			4.93 g	50 mL	12543	06/24/21 10:24	JM	XEN STF
Total/NA	Analysis	300.0		1			12515	06/24/21 16:16	WP	XEN STF

Client Sample ID: Cell20-Square89-S-3-4-210616 Lab Sample ID: 860-6149-9

Date Collected: 06/16/21 11:11 **Matrix: Solid**
Date Received: 06/17/21 10:30

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	12578	06/24/21 12:53	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	12564	06/24/21 15:57	A1S	XEN STF
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12120	06/21/21 17:09	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12161	06/22/21 14:02	IS	XEN STF
Total/NA	Prep	300_Prep			5.03 g	50 mL	12543	06/24/21 10:24	JM	XEN STF
Total/NA	Analysis	300.0		1			12515	06/24/21 16:26	WP	XEN STF

Client Sample ID: Cell20-Square153-S-2-3-210616 Lab Sample ID: 860-6149-10

Date Collected: 06/16/21 12:30 **Matrix: Solid**
Date Received: 06/17/21 10:30

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	12470	06/23/21 18:10	AW	XEN STF
Total/NA	Analysis	8260C		25	5 mL	5 mL	12564	06/24/21 15:17	A1S	XEN STF

Eurofins Xenco, Stafford

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-6149-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square153-S-2-3-210616 **Lab Sample ID: 860-6149-10**
Date Collected: 06/16/21 12:30 **Matrix: Solid**
Date Received: 06/17/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12120	06/21/21 17:09	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12161	06/22/21 14:23	IS	XEN STF
Total/NA	Prep	300_Prep			4.96 g	50 mL	12543	06/24/21 10:24	JM	XEN STF
Total/NA	Analysis	300.0		1			12515	06/24/21 16:36	WP	XEN STF

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-6149-1
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	20-025-0	08-04-21
Florida	NELAP	E871002	06-30-21
Louisiana	NELAP	03054	06-30-21
North Carolina (WW/SW)	State	681	12-31-21
Oklahoma	State	1306	08-31-21
Texas	NELAP	T104704215-21-41	06-30-21
USDA	US Federal Programs	P330-19-00137	04-24-22

Method Summary

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

Job ID: 860-6149-1

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
300.0	Anions, Ion Chromatography	MCAWW	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.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4147 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: 860-6149-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
860-6149-1	Cell17-Treatment-S-.5-210615	Solid	06/15/21 09:55	06/17/21 10:30	
860-6149-2	Cell18-Treatment-S-.5-210615	Solid	06/15/21 10:20	06/17/21 10:30	
860-6149-3	Cell19-Treatment-S-.5-210615	Solid	06/15/21 10:40	06/17/21 10:30	
860-6149-4	Cell20-Treatment-S-.5-210615	Solid	06/15/21 11:32	06/17/21 10:30	
860-6149-5	Cell21-Treatment-S-.5-210615	Solid	06/15/21 11:55	06/17/21 10:30	
860-6149-6	Cell25-Treatment-S-.5-210615	Solid	06/15/21 12:15	06/17/21 10:30	
860-6149-7	Cell26-Treatment-S-.5-210615	Solid	06/15/21 12:39	06/17/21 10:30	
860-6149-8	Cell20-Square22-S-3-4-210616	Solid	06/16/21 10:30	06/17/21 10:30	
860-6149-9	Cell20-Square89-S-3-4-210616	Solid	06/16/21 11:11	06/17/21 10:30	
860-6149-10	Cell20-Square153-S-2-3-210616	Solid	06/16/21 12:30	06/17/21 10:30	

Released to Imaging: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins

Client Information	Sampler: Justin Steinmann	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-2093-712.1
Client Contact: Sarah Johnson	Phone: 619 851 8792	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: NM	Page: Page 1 of 1
Company: ARCADIS U.S. Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): Std			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 303-316-6506(Tel)	PO #: Purchase Order Requested			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jal Landfarm	SSOW#:			

Analysis Requested

Temp 2.7 IR ID-HOU-272
C/F +0.1
Corrected Temp: 2.8

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=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_ Chloride	8260C BTEX	8015- GRO/DRO/ORO	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
Cell17-Treatment-S-.5-210615	6/15/21	0955	C	Solid						2	
Cell18-Treatment-S-.5-210615	6/15/21	1020	C	Solid						2	
Cell19-Treatment-S-.5-210615	6/15/21	1040	C	Solid						2	
Cell20-Treatment-S-.5-210615	6/15/21	1132	C	Solid						2	
Cell21-Treatment-S-.5-210615	6/15/21	1155	C	Solid						2	
Cell25-Treatment-S-.5-210615	6/15/21	1215	C	Solid						2	
Cell26-Treatment-S-.5-210615	6/15/21	1239	C	Solid						2	
Cell20-Square22-S-3-4-210616	6/16/21	1030	G	Solid						2	
Cell20-Square89-S-3-4-210616	6/16/21	1111	G	Solid						2	
Cell20-Square153-S-2-3-210616	6/16/21	1230	G	Solid						2	
				Solid							

9/6/10/12

860-6149 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: 6/16/21 1600	Company: Arcadis	Received by:	Date/Time:	Company
Relinquished by:	Date/Time: 6/17/21 1030	Company	Received by: YCRS	Date/Time: 6/17/21 1030	Company EA
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: 860-6149-1

Login Number: 6149 **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	2.8
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: 860-6149-1

Login Number: 6149 **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	2.8
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.

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ANALYTICAL REPORT

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-6296-1
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:
7/1/2021 4:48:53 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: 860-6296-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

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

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.

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: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-6296-1

Laboratory: Eurofins Xenco, Stafford

Narrative

Job Narrative
860-6296-1

Receipt
The samples were received on 6/19/2021 10:09 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 5.5°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.

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 19-Square47-5-3-4-210618 — Lab Sample ID: 860-6296-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.000823	J	0.000992	0.000205	mg/Kg	1		8260C	Total/NA
Total BTEX	0.00261	J b	0.00497	0.000994	mg/Kg	1		8260C	Total/NA
Chloride	34.1		9.94	3.52	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell 20-Square118-5-2-3-210617 — Lab Sample ID: 860-6296-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.000526	J	0.000990	0.000205	mg/Kg	1		8260C	Total/NA
m,p-Xylenes	0.000849	J	0.00199	0.000795	mg/Kg	1		8260C	Total/NA
Total BTEX	0.00297	J b	0.00497	0.000994	mg/Kg	1		8260C	Total/NA
Chloride	5.19	J	10.1	3.57	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell 19-Square73-5-3-4-210618 — Lab Sample ID: 860-6296-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.000629	J	0.00100	0.000207	mg/Kg	1		8260C	Total/NA
Total BTEX	0.00216	J b	0.00495	0.000990	mg/Kg	1		8260C	Total/NA
Chloride	48.1		10.0	3.55	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell 19-Square17-5-3-4-210618 — Lab Sample ID: 860-6296-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.92	J	10.1	3.58	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell 19-Square168-5-3-4-210618 — Lab Sample ID: 860-6296-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.54	J	9.98	3.53	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell 18-Square150-5-3-4-210618 — Lab Sample ID: 860-6296-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00104	J	0.00505	0.00101	mg/Kg	1		8260C	Total/NA
Total BTEX	0.00104	J	0.00505	0.00101	mg/Kg	1		8260C	Total/NA
Chloride	20.2		10.1	3.57	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell 18-Square109-5-3-4-210618 — Lab Sample ID: 860-6296-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.92	J	10.0	3.54	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell 18-Square156-5-3-4-210618 — Lab Sample ID: 860-6296-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.73	J	9.88	3.50	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell 18-Square145-5-3-4-210618 — Lab Sample ID: 860-6296-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.38	J	9.84	3.48	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell 17-Square32-5-3-4-210618 — Lab Sample ID: 860-6296-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	25.0		10.1	3.57	mg/Kg	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square97-5-3-4-210618 Lab Sample ID: 860-6296-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	265		10.0	3.55	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell 17-Square120-5-3-4-210618 Lab Sample ID: 860-6296-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.89	J	9.96	3.53	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell 17-Square126-5-3-4-210618 Lab Sample ID: 860-6296-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.000693	J	0.00101	0.000209	mg/Kg	1		8260C	Total/NA
Toluene	0.00147	J	0.00497	0.000994	mg/Kg	1		8260C	Total/NA
Ethylbenzene	0.000347	J	0.000994	0.000334	mg/Kg	1		8260C	Total/NA
m,p-Xylenes	0.00105	J	0.00199	0.000795	mg/Kg	1		8260C	Total/NA
Xylenes, Total	0.00105	J	0.00199	0.000979	mg/Kg	1		8260C	Total/NA
Total BTEX	0.00528	b	0.00497	0.000994	mg/Kg	1		8260C	Total/NA
Chloride	4.98	J	9.92	3.51	mg/Kg	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Stafford

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 19-Square47-5-3-4-210618 Lab Sample ID: 860-6296-1

Date Collected: 06/18/21 09:56 **Matrix: Solid**
Date Received: 06/19/21 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000823**	**J**	0.000992	0.000205	mg/Kg		06/30/21 16:45	06/30/21 17:47	1
Toluene	0.000994	U	0.00497	0.000994	mg/Kg		06/30/21 11:50	06/30/21 14:24	1
Ethylbenzene	0.000334	U	0.000994	0.000334	mg/Kg		06/30/21 11:50	06/30/21 14:24	1
m,p-Xylenes	0.000795	U	0.00199	0.000795	mg/Kg		06/30/21 11:50	06/30/21 14:24	1
o-Xylene	0.000979	U	0.000994	0.000979	mg/Kg		06/30/21 11:50	06/30/21 14:24	1
Xylenes, Total	0.000979	U	0.00199	0.000979	mg/Kg		06/30/21 11:50	06/30/21 14:24	1
Total BTEX	**0.00261**	**J b**	0.00497	0.000994	mg/Kg		06/30/21 11:50	06/30/21 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*56 - 150*	*06/30/21 11:50*	*06/30/21 14:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*06/30/21 16:45*	*06/30/21 17:47*	*1*
4-Bromofluorobenzene (Surr)	*106*		*68 - 152*	*06/30/21 11:50*	*06/30/21 14:24*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*	*06/30/21 16:45*	*06/30/21 17:47*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*06/30/21 11:50*	*06/30/21 14:24*	*1*
Dibromofluoromethane (Surr)	*104*		*53 - 142*	*06/30/21 16:45*	*06/30/21 17:47*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*06/30/21 11:50*	*06/30/21 14:24*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*06/30/21 16:45*	*06/30/21 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	21.2	U	50.4	21.2	mg/Kg		06/23/21 09:44	06/23/21 13:46	1
Diesel Range Organics (Over C10-C28)	21.2	U	50.4	21.2	mg/Kg		06/23/21 09:44	06/23/21 13:46	1
OII Range Organics (Over C28-C36)	21.2	U	50.4	21.2	mg/Kg		06/23/21 09:44	06/23/21 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*65 - 130*	*06/23/21 09:44*	*06/23/21 13:46*	*1*
o-Terphenyl	*88*		*65 - 130*	*06/23/21 09:44*	*06/23/21 13:46*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.1**		9.94	3.52	mg/Kg		06/29/21 09:33	06/29/21 17:40	1

Client Sample ID: Cell 20-Square118-5-2-3-210617 Lab Sample ID: 860-6296-2

Date Collected: 06/18/21 10:20 **Matrix: Solid**
Date Received: 06/19/21 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000526**	**J**	0.000990	0.000205	mg/Kg		06/30/21 18:00	06/30/21 18:47	1
Toluene	0.000994	U	0.00497	0.000994	mg/Kg		06/30/21 11:50	06/30/21 14:44	1
Ethylbenzene	0.000334	U	0.000994	0.000334	mg/Kg		06/30/21 11:50	06/30/21 14:44	1
m,p-Xylenes	**0.000849**	**J**	0.00199	0.000795	mg/Kg		06/30/21 11:50	06/30/21 14:44	1
o-Xylene	0.000979	U	0.000994	0.000979	mg/Kg		06/30/21 11:50	06/30/21 14:44	1
Xylenes, Total	0.000979	U	0.00199	0.000979	mg/Kg		06/30/21 11:50	06/30/21 14:44	1
Total BTEX	**0.00297**	**J b**	0.00497	0.000994	mg/Kg		06/30/21 11:50	06/30/21 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*56 - 150*	*06/30/21 11:50*	*06/30/21 14:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*06/30/21 18:00*	*06/30/21 18:47*	*1*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*	*06/30/21 11:50*	*06/30/21 14:44*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 20-Square118-5-2-3-210617 Lab Sample ID: 860-6296-2

Date Collected: 06/18/21 10:20 **Matrix: Solid**
Date Received: 06/19/21 10:09

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		68 - 152	06/30/21 18:00	06/30/21 18:47	1
Dibromofluoromethane (Surr)	96		53 - 142	06/30/21 11:50	06/30/21 14:44	1
Dibromofluoromethane (Surr)	101		53 - 142	06/30/21 18:00	06/30/21 18:47	1
Toluene-d8 (Surr)	99		70 - 130	06/30/21 11:50	06/30/21 14:44	1
Toluene-d8 (Surr)	99		70 - 130	06/30/21 18:00	06/30/21 18:47	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		06/23/21 09:44	06/23/21 14:50	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		06/23/21 09:44	06/23/21 14:50	1
OII Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		06/23/21 09:44	06/23/21 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		65 - 130	06/23/21 09:44	06/23/21 14:50	1
o-Terphenyl	85		65 - 130	06/23/21 09:44	06/23/21 14:50	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.19	J	10.1	3.57	mg/Kg		06/29/21 09:33	06/29/21 17:51	1

Client Sample ID: Cell 19-Square73-5-3-4-210618 Lab Sample ID: 860-6296-3

Date Collected: 06/18/21 10:30 **Matrix: Solid**
Date Received: 06/19/21 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000629	J	0.00100	0.000207	mg/Kg		06/30/21 16:45	06/30/21 18:07	1
Toluene	0.000990	U	0.00495	0.000990	mg/Kg		06/30/21 11:50	06/30/21 15:04	1
Ethylbenzene	0.000332	U	0.000990	0.000332	mg/Kg		06/30/21 11:50	06/30/21 15:04	1
m,p-Xylenes	0.000792	U	0.00198	0.000792	mg/Kg		06/30/21 11:50	06/30/21 15:04	1
o-Xylene	0.000975	U	0.000990	0.000975	mg/Kg		06/30/21 11:50	06/30/21 15:04	1
Xylenes, Total	0.000975	U	0.00198	0.000975	mg/Kg		06/30/21 11:50	06/30/21 15:04	1
Total BTEX	0.00216	J b	0.00495	0.000990	mg/Kg		06/30/21 11:50	06/30/21 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		56 - 150	06/30/21 11:50	06/30/21 15:04	1
1,2-Dichloroethane-d4 (Surr)	107		56 - 150	06/30/21 16:45	06/30/21 18:07	1
4-Bromofluorobenzene (Surr)	104		68 - 152	06/30/21 11:50	06/30/21 15:04	1
4-Bromofluorobenzene (Surr)	99		68 - 152	06/30/21 16:45	06/30/21 18:07	1
Dibromofluoromethane (Surr)	96		53 - 142	06/30/21 11:50	06/30/21 15:04	1
Dibromofluoromethane (Surr)	102		53 - 142	06/30/21 16:45	06/30/21 18:07	1
Toluene-d8 (Surr)	101		70 - 130	06/30/21 11:50	06/30/21 15:04	1
Toluene-d8 (Surr)	93		70 - 130	06/30/21 16:45	06/30/21 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	21.0	U	49.7	21.0	mg/Kg		06/23/21 09:44	06/23/21 15:12	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.7	21.0	mg/Kg		06/23/21 09:44	06/23/21 15:12	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 19-Square73-5-3-4-210618 Lab Sample ID: 860-6296-3

Date Collected: 06/18/21 10:30 **Matrix: Solid**
Date Received: 06/19/21 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	21.0	U	49.7	21.0	mg/Kg		06/23/21 09:44	06/23/21 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*65 - 130*	*06/23/21 09:44*	*06/23/21 15:12*	*1*
o-Terphenyl	*83*		*65 - 130*	*06/23/21 09:44*	*06/23/21 15:12*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**48.1**		10.0	3.55	mg/Kg		06/29/21 09:33	06/29/21 18:01	1

Client Sample ID: Cell 19-Square17-5-3-4-210618 Lab Sample ID: 860-6296-4

Date Collected: 06/18/21 10:55 **Matrix: Solid**
Date Received: 06/19/21 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000206	U	0.000996	0.000206	mg/Kg		06/29/21 13:02	06/30/21 02:16	1
Toluene	0.000996	U	0.00498	0.000996	mg/Kg		06/29/21 13:02	06/30/21 02:16	1
Ethylbenzene	0.000334	U	0.000996	0.000334	mg/Kg		06/29/21 13:02	06/30/21 02:16	1
m,p-Xylenes	0.000797	U	0.00199	0.000797	mg/Kg		06/29/21 13:02	06/30/21 02:16	1
o-Xylene	0.000981	U	0.000996	0.000981	mg/Kg		06/29/21 13:02	06/30/21 02:16	1
Xylenes, Total	0.000981	U	0.00199	0.000981	mg/Kg		06/29/21 13:02	06/30/21 02:16	1
Total BTEX	0.000996	U	0.00498	0.000996	mg/Kg		06/29/21 13:02	06/30/21 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*	*06/29/21 13:02*	*06/30/21 02:16*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*	*06/29/21 13:02*	*06/30/21 02:16*	*1*
Dibromofluoromethane (Surr)	*90*		*53 - 142*	*06/29/21 13:02*	*06/30/21 02:16*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*06/29/21 13:02*	*06/30/21 02:16*	*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	21.2	U	50.3	21.2	mg/Kg		06/23/21 09:44	06/23/21 15:33	1
Diesel Range Organics (Over C10-C28)	21.2	U	50.3	21.2	mg/Kg		06/23/21 09:44	06/23/21 15:33	1
OII Range Organics (Over C28-C36)	21.2	U	50.3	21.2	mg/Kg		06/23/21 09:44	06/23/21 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*65 - 130*	*06/23/21 09:44*	*06/23/21 15:33*	*1*
o-Terphenyl	*84*		*65 - 130*	*06/23/21 09:44*	*06/23/21 15:33*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.92**	**J**	10.1	3.58	mg/Kg		06/29/21 09:33	06/29/21 18:32	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 19-Square168-5-3-4-210618 Lab Sample ID: 860-6296-5

Date Collected: 06/18/21 11:25 **Matrix: Solid**
Date Received: 06/19/21 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000205	U	0.000990	0.000205	mg/Kg		06/29/21 13:02	06/30/21 02:36	1
Toluene	0.000990	U	0.00495	0.000990	mg/Kg		06/29/21 13:02	06/30/21 02:36	1
Ethylbenzene	0.000332	U	0.000990	0.000332	mg/Kg		06/29/21 13:02	06/30/21 02:36	1
m,p-Xylenes	0.000792	U	0.00198	0.000792	mg/Kg		06/29/21 13:02	06/30/21 02:36	1
o-Xylene	0.000975	U	0.000990	0.000975	mg/Kg		06/29/21 13:02	06/30/21 02:36	1
Xylenes, Total	0.000975	U	0.00198	0.000975	mg/Kg		06/29/21 13:02	06/30/21 02:36	1
Total BTEX	0.000990	U	0.00495	0.000990	mg/Kg		06/29/21 13:02	06/30/21 02:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*	*06/29/21 13:02*	*06/30/21 02:36*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*	*06/29/21 13:02*	*06/30/21 02:36*	*1*
Dibromofluoromethane (Surr)	*90*		*53 - 142*	*06/29/21 13:02*	*06/30/21 02:36*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/29/21 13:02*	*06/30/21 02:36*	*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		06/23/21 09:44	06/23/21 15:55	1
Diesel Range Organics (Over C10-C28)	20.9	U	49.5	20.9	mg/Kg		06/23/21 09:44	06/23/21 15:55	1
OII Range Organics (Over C28-C36)	20.9	U	49.5	20.9	mg/Kg		06/23/21 09:44	06/23/21 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*65 - 130*	*06/23/21 09:44*	*06/23/21 15:55*	*1*
o-Terphenyl	*79*		*65 - 130*	*06/23/21 09:44*	*06/23/21 15:55*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.54**	**J**	9.98	3.53	mg/Kg		06/29/21 09:33	06/29/21 18:43	1

Client Sample ID: Cell 18-Square150-5-3-4-210618 Lab Sample ID: 860-6296-6

Date Collected: 06/18/21 11:55 **Matrix: Solid**
Date Received: 06/19/21 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000209	U	0.00101	0.000209	mg/Kg		06/29/21 13:02	06/30/21 02:56	1
Toluene	**0.00104**	**J**	0.00505	0.00101	mg/Kg		06/29/21 13:02	06/30/21 02:56	1
Ethylbenzene	0.000339	U	0.00101	0.000339	mg/Kg		06/29/21 13:02	06/30/21 02:56	1
m,p-Xylenes	0.000808	U	0.00202	0.000808	mg/Kg		06/29/21 13:02	06/30/21 02:56	1
o-Xylene	0.000995	U	0.00101	0.000995	mg/Kg		06/29/21 13:02	06/30/21 02:56	1
Xylenes, Total	0.000995	U	0.00202	0.000995	mg/Kg		06/29/21 13:02	06/30/21 02:56	1
Total BTEX	**0.00104**	**J**	0.00505	0.00101	mg/Kg		06/29/21 13:02	06/30/21 02:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*56 - 150*	*06/29/21 13:02*	*06/30/21 02:56*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*	*06/29/21 13:02*	*06/30/21 02:56*	*1*
Dibromofluoromethane (Surr)	*92*		*53 - 142*	*06/29/21 13:02*	*06/30/21 02:56*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*06/29/21 13:02*	*06/30/21 02:56*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-Square150-5-3-4-210618 Lab Sample ID: 860-6296-6

Date Collected: 06/18/21 11:55 **Matrix: Solid**
Date Received: 06/19/21 10:09

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		06/23/21 09:44	06/23/21 16:38	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		06/23/21 09:44	06/23/21 16:38	1
OII Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		06/23/21 09:44	06/23/21 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*65*		*65 - 130*	*06/23/21 09:44*	*06/23/21 16:38*	*1*
o-Terphenyl	*73*		*65 - 130*	*06/23/21 09:44*	*06/23/21 16:38*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.2**		10.1	3.57	mg/Kg		06/29/21 09:33	06/29/21 18:53	1

Client Sample ID: Cell 18-Square109-5-3-4-210618 Lab Sample ID: 860-6296-7

Date Collected: 06/18/21 12:30 **Matrix: Solid**
Date Received: 06/19/21 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000208	U	0.00101	0.000208	mg/Kg		06/29/21 13:02	06/30/21 03:15	1
Toluene	0.00101	U	0.00503	0.00101	mg/Kg		06/29/21 13:02	06/30/21 03:15	1
Ethylbenzene	0.000338	U	0.00101	0.000338	mg/Kg		06/29/21 13:02	06/30/21 03:15	1
m,p-Xylenes	0.000805	U	0.00201	0.000805	mg/Kg		06/29/21 13:02	06/30/21 03:15	1
o-Xylene	0.000991	U	0.00101	0.000991	mg/Kg		06/29/21 13:02	06/30/21 03:15	1
Xylenes, Total	0.000991	U	0.00201	0.000991	mg/Kg		06/29/21 13:02	06/30/21 03:15	1
Total BTEX	0.00101	U	0.00503	0.00101	mg/Kg		06/29/21 13:02	06/30/21 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*56 - 150*	*06/29/21 13:02*	*06/30/21 03:15*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*06/29/21 13:02*	*06/30/21 03:15*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*	*06/29/21 13:02*	*06/30/21 03:15*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*06/29/21 13:02*	*06/30/21 03:15*	*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	49.6	20.9	mg/Kg		06/23/21 09:44	06/23/21 17:00	1
Diesel Range Organics (Over C10-C28)	20.9	U	49.6	20.9	mg/Kg		06/23/21 09:44	06/23/21 17:00	1
OII Range Organics (Over C28-C36)	20.9	U	49.6	20.9	mg/Kg		06/23/21 09:44	06/23/21 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*		*65 - 130*	*06/23/21 09:44*	*06/23/21 17:00*	*1*
o-Terphenyl	*77*		*65 - 130*	*06/23/21 09:44*	*06/23/21 17:00*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.92**	**J**	10.0	3.54	mg/Kg		06/29/21 09:33	06/29/21 19:03	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-Square156-5-3-4-210618 Lab Sample ID: 860-6296-8

Date Collected: 06/18/21 12:55 **Matrix: Solid**
Date Received: 06/19/21 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000205	U	0.000990	0.000205	mg/Kg		06/29/21 13:02	06/30/21 03:35	1
Toluene	0.000990	U	0.00495	0.000990	mg/Kg		06/29/21 13:02	06/30/21 03:35	1
Ethylbenzene	0.000332	U	0.000990	0.000332	mg/Kg		06/29/21 13:02	06/30/21 03:35	1
m,p-Xylenes	0.000792	U	0.00198	0.000792	mg/Kg		06/29/21 13:02	06/30/21 03:35	1
o-Xylene	0.000975	U	0.000990	0.000975	mg/Kg		06/29/21 13:02	06/30/21 03:35	1
Xylenes, Total	0.000975	U	0.00198	0.000975	mg/Kg		06/29/21 13:02	06/30/21 03:35	1
Total BTEX	0.000990	U	0.00495	0.000990	mg/Kg		06/29/21 13:02	06/30/21 03:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*56 - 150*	*06/29/21 13:02*	*06/30/21 03:35*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*06/29/21 13:02*	*06/30/21 03:35*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*	*06/29/21 13:02*	*06/30/21 03:35*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/29/21 13:02*	*06/30/21 03:35*	*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	49.9	21.0	mg/Kg		06/23/21 09:44	06/23/21 17:53	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.9	21.0	mg/Kg		06/23/21 09:44	06/23/21 17:53	1
OII Range Organics (Over C28-C36)	21.0	U	49.9	21.0	mg/Kg		06/23/21 09:44	06/23/21 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*65 - 130*	*06/23/21 09:44*	*06/23/21 17:53*	*1*
o-Terphenyl	*91*		*65 - 130*	*06/23/21 09:44*	*06/23/21 17:53*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.73**	**J**	9.88	3.50	mg/Kg		06/29/21 09:33	06/29/21 19:14	1

Client Sample ID: Cell 18-Square145-5-3-4-210618 Lab Sample ID: 860-6296-9

Date Collected: 06/18/21 13:34 **Matrix: Solid**
Date Received: 06/19/21 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000209	U	0.00101	0.000209	mg/Kg		06/29/21 13:02	06/30/21 03:55	1
Toluene	0.00101	U	0.00505	0.00101	mg/Kg		06/29/21 13:02	06/30/21 03:55	1
Ethylbenzene	0.000339	U	0.00101	0.000339	mg/Kg		06/29/21 13:02	06/30/21 03:55	1
m,p-Xylenes	0.000808	U	0.00202	0.000808	mg/Kg		06/29/21 13:02	06/30/21 03:55	1
o-Xylene	0.000995	U	0.00101	0.000995	mg/Kg		06/29/21 13:02	06/30/21 03:55	1
Xylenes, Total	0.000995	U	0.00202	0.000995	mg/Kg		06/29/21 13:02	06/30/21 03:55	1
Total BTEX	0.00101	U	0.00505	0.00101	mg/Kg		06/29/21 13:02	06/30/21 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*06/29/21 13:02*	*06/30/21 03:55*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*06/29/21 13:02*	*06/30/21 03:55*	*1*
Dibromofluoromethane (Surr)	*88*		*53 - 142*	*06/29/21 13:02*	*06/30/21 03:55*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*06/29/21 13:02*	*06/30/21 03:55*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-Square145-5-3-4-210618 Lab Sample ID: 860-6296-9

Date Collected: 06/18/21 13:34 **Matrix: Solid**
Date Received: 06/19/21 10:09

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		06/23/21 09:44	06/23/21 18:14	1
Diesel Range Organics (Over C10-C28)	20.9	U	49.5	20.9	mg/Kg		06/23/21 09:44	06/23/21 18:14	1
OII Range Organics (Over C28-C36)	20.9	U	49.5	20.9	mg/Kg		06/23/21 09:44	06/23/21 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*65 - 130*	*06/23/21 09:44*	*06/23/21 18:14*	*1*
o-Terphenyl	*88*		*65 - 130*	*06/23/21 09:44*	*06/23/21 18:14*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.38**	**J**	9.84	3.48	mg/Kg		06/29/21 09:33	06/29/21 19:24	1

Client Sample ID: Cell 17-Square32-5-3-4-210618 Lab Sample ID: 860-6296-10

Date Collected: 06/18/21 13:57 **Matrix: Solid**
Date Received: 06/19/21 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000209	U	0.00101	0.000209	mg/Kg		06/29/21 13:02	06/30/21 04:15	1
Toluene	0.00101	U	0.00505	0.00101	mg/Kg		06/29/21 13:02	06/30/21 04:15	1
Ethylbenzene	0.000339	U	0.00101	0.000339	mg/Kg		06/29/21 13:02	06/30/21 04:15	1
m,p-Xylenes	0.000808	U	0.00202	0.000808	mg/Kg		06/29/21 13:02	06/30/21 04:15	1
o-Xylene	0.000995	U	0.00101	0.000995	mg/Kg		06/29/21 13:02	06/30/21 04:15	1
Xylenes, Total	0.000995	U	0.00202	0.000995	mg/Kg		06/29/21 13:02	06/30/21 04:15	1
Total BTEX	0.00101	U	0.00505	0.00101	mg/Kg		06/29/21 13:02	06/30/21 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*56 - 150*	*06/29/21 13:02*	*06/30/21 04:15*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*06/29/21 13:02*	*06/30/21 04:15*	*1*
Dibromofluoromethane (Surr)	*93*		*53 - 142*	*06/29/21 13:02*	*06/30/21 04:15*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*06/29/21 13:02*	*06/30/21 04:15*	*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		06/23/21 09:44	06/23/21 18:36	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		06/23/21 09:44	06/23/21 18:36	1
OII Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		06/23/21 09:44	06/23/21 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*65 - 130*	*06/23/21 09:44*	*06/23/21 18:36*	*1*
o-Terphenyl	*80*		*65 - 130*	*06/23/21 09:44*	*06/23/21 18:36*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.0**		10.1	3.57	mg/Kg		06/29/21 09:33	06/29/21 19:35	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square97-5-3-4-210618 Lab Sample ID: 860-6296-11

Date Collected: 06/18/21 14:20 **Matrix: Solid**
Date Received: 06/19/21 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000205	U	0.000990	0.000205	mg/Kg		06/29/21 13:02	06/30/21 04:35	1
Toluene	0.000990	U	0.00495	0.000990	mg/Kg		06/29/21 13:02	06/30/21 04:35	1
Ethylbenzene	0.000332	U	0.000990	0.000332	mg/Kg		06/29/21 13:02	06/30/21 04:35	1
m,p-Xylenes	0.000792	U	0.00198	0.000792	mg/Kg		06/29/21 13:02	06/30/21 04:35	1
o-Xylene	0.000975	U	0.000990	0.000975	mg/Kg		06/29/21 13:02	06/30/21 04:35	1
Xylenes, Total	0.000975	U	0.00198	0.000975	mg/Kg		06/29/21 13:02	06/30/21 04:35	1
Total BTEX	0.000990	U	0.00495	0.000990	mg/Kg		06/29/21 13:02	06/30/21 04:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*56 - 150*	*06/29/21 13:02*	*06/30/21 04:35*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*06/29/21 13:02*	*06/30/21 04:35*	*1*
Dibromofluoromethane (Surr)	*86*		*53 - 142*	*06/29/21 13:02*	*06/30/21 04:35*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*06/29/21 13:02*	*06/30/21 04:35*	*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		06/23/21 09:44	06/23/21 18:57	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		06/23/21 09:44	06/23/21 18:57	1
OII Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		06/23/21 09:44	06/23/21 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*65 - 130*	*06/23/21 09:44*	*06/23/21 18:57*	*1*
o-Terphenyl	*86*		*65 - 130*	*06/23/21 09:44*	*06/23/21 18:57*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**265**		10.0	3.55	mg/Kg		06/29/21 09:33	06/29/21 19:45	1

Client Sample ID: Cell 17-Square120-5-3-4-210618 Lab Sample ID: 860-6296-12

Date Collected: 06/18/21 14:40 **Matrix: Solid**
Date Received: 06/19/21 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000208	U	0.00100	0.000208	mg/Kg		06/29/21 13:02	06/30/21 04:55	1
Toluene	0.00100	U	0.00502	0.00100	mg/Kg		06/29/21 13:02	06/30/21 04:55	1
Ethylbenzene	0.000337	U	0.00100	0.000337	mg/Kg		06/29/21 13:02	06/30/21 04:55	1
m,p-Xylenes	0.000803	U	0.00201	0.000803	mg/Kg		06/29/21 13:02	06/30/21 04:55	1
o-Xylene	0.000989	U	0.00100	0.000989	mg/Kg		06/29/21 13:02	06/30/21 04:55	1
Xylenes, Total	0.000989	U	0.00201	0.000989	mg/Kg		06/29/21 13:02	06/30/21 04:55	1
Total BTEX	0.00100	U	0.00502	0.00100	mg/Kg		06/29/21 13:02	06/30/21 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*56 - 150*	*06/29/21 13:02*	*06/30/21 04:55*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*06/29/21 13:02*	*06/30/21 04:55*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*	*06/29/21 13:02*	*06/30/21 04:55*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*06/29/21 13:02*	*06/30/21 04:55*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square120-5-3-4-210618 Lab Sample ID: 860-6296-12

Date Collected: 06/18/21 14:40 **Matrix: Solid**
Date Received: 06/19/21 10:09

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		06/23/21 09:44	06/23/21 19:19	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.7	21.0	mg/Kg		06/23/21 09:44	06/23/21 19:19	1
Oil Range Organics (Over C28-C36)	21.0	U	49.7	21.0	mg/Kg		06/23/21 09:44	06/23/21 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*65 - 130*	*06/23/21 09:44*	*06/23/21 19:19*	*1*
o-Terphenyl	*84*		*65 - 130*	*06/23/21 09:44*	*06/23/21 19:19*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.89**	**J**	9.96	3.53	mg/Kg		06/29/21 09:33	06/29/21 19:56	1

Client Sample ID: Cell 17-Square126-5-3-4-210618 Lab Sample ID: 860-6296-13

Date Collected: 06/18/21 15:08 **Matrix: Solid**
Date Received: 06/19/21 10:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000693**	**J**	0.00101	0.000209	mg/Kg		06/30/21 16:45	06/30/21 18:27	1
Toluene	**0.00147**	**J**	0.00497	0.000994	mg/Kg		06/30/21 11:50	06/30/21 14:03	1
Ethylbenzene	**0.000347**	**J**	0.000994	0.000334	mg/Kg		06/30/21 11:50	06/30/21 14:03	1
m,p-Xylenes	**0.00105**	**J**	0.00199	0.000795	mg/Kg		06/30/21 11:50	06/30/21 14:03	1
o-Xylene	0.000979	U	0.000994	0.000979	mg/Kg		06/30/21 11:50	06/30/21 14:03	1
Xylenes, Total	**0.00105**	**J**	0.00199	0.000979	mg/Kg		06/30/21 11:50	06/30/21 14:03	1
Total BTEX	**0.00528**	**b**	0.00497	0.000994	mg/Kg		06/30/21 11:50	06/30/21 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*56 - 150*	*06/30/21 11:50*	*06/30/21 14:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*56 - 150*	*06/30/21 16:45*	*06/30/21 18:27*	*1*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*	*06/30/21 11:50*	*06/30/21 14:03*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*06/30/21 16:45*	*06/30/21 18:27*	*1*
Dibromofluoromethane (Surr)	*95*		*53 - 142*	*06/30/21 11:50*	*06/30/21 14:03*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*	*06/30/21 16:45*	*06/30/21 18:27*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*06/30/21 11:50*	*06/30/21 14:03*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*06/30/21 16:45*	*06/30/21 18:27*	*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	21.0	U	49.8	21.0	mg/Kg		06/23/21 09:44	06/23/21 19:40	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		06/23/21 09:44	06/23/21 19:40	1
Oil Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		06/23/21 09:44	06/23/21 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*65 - 130*	*06/23/21 09:44*	*06/23/21 19:40*	*1*
o-Terphenyl	*80*		*65 - 130*	*06/23/21 09:44*	*06/23/21 19:40*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square126-5-3-4-210618
Lab Sample ID: 860-6296-13
Date Collected: 06/18/21 15:08
Matrix: Solid
Date Received: 06/19/21 10:09

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.98	J	9.92	3.51	mg/Kg		06/29/21 09:33	06/29/21 20:06	1

Surrogate Summary

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

Job ID: 860-6296-1

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)
860-6296-1	Cell 19-Square47-5-3-4-210618	91	106	96	101
860-6296-1	Cell 19-Square47-5-3-4-210618	103	96	104	97
860-6296-2	Cell 20-Square118-5-2-3-210617	90	103	96	99
860-6296-2	Cell 20-Square118-5-2-3-210617	105	97	101	99
860-6296-3	Cell 19-Square73-5-3-4-210618	92	104	96	101
860-6296-3	Cell 19-Square73-5-3-4-210618	107	99	102	93
860-6296-4	Cell 19-Square17-5-3-4-210618	104	96	90	99
860-6296-5	Cell 19-Square168-5-3-4-210618	100	96	90	96
860-6296-6	Cell 18-Square150-5-3-4-210618	106	96	92	99
860-6296-7	Cell 18-Square109-5-3-4-210618	108	97	91	94
860-6296-8	Cell 18-Square156-5-3-4-210618	111	102	91	96
860-6296-9	Cell 18-Square145-5-3-4-210618	105	99	88	99
860-6296-10	Cell 17-Square32-5-3-4-210618	107	99	93	98
860-6296-11	Cell 17-Square97-5-3-4-210618	108	101	86	95
860-6296-12	Cell 17-Square120-5-3-4-210618	107	99	91	99
860-6296-13	Cell 17-Square126-5-3-4-210618	90	103	95	99
860-6296-13	Cell 17-Square126-5-3-4-210618	92	98	99	104
860-6296-A-13-B MS	860-6296-A-13-B MS	101	101	96	97
860-6296-A-13-C MSD	860-6296-A-13-C MSD	103	105	97	98
LCS 860-13231/3	Lab Control Sample	101	96	98	101
LCS 860-13265/3	Lab Control Sample	88	101	96	101
LCS 860-13310/3	Lab Control Sample	97	96	106	93
LCSD 860-13231/4	Lab Control Sample Dup	99	99	93	100
LCSD 860-13265/4	Lab Control Sample Dup	84	102	97	102
LCSD 860-13310/4	Lab Control Sample Dup	89	99	103	100
MB 860-13231/9	Method Blank	103	98	91	99
MB 860-13265/8	Method Blank	86	102	93	100
MB 860-13310/7	Method Blank	91	101	96	103

Surrogate Legend

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

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
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)								
860-6296-1	Cell 19-Square47-5-3-4-210618	82	88								
860-6296-1 MS	Cell 19-Square47-5-3-4-210618	94	75								
860-6296-1 MSD	Cell 19-Square47-5-3-4-210618	99	80								
860-6296-2	Cell 20-Square118-5-2-3-210617	78	85								
860-6296-3	Cell 19-Square73-5-3-4-210618	75	83								
860-6296-4	Cell 19-Square17-5-3-4-210618	76	84								
860-6296-5	Cell 19-Square168-5-3-4-210618	70	79								
860-6296-6	Cell 18-Square150-5-3-4-210618	65	73								
860-6296-7	Cell 18-Square109-5-3-4-210618	69	77								
860-6296-8	Cell 18-Square156-5-3-4-210618	83	91								
860-6296-9	Cell 18-Square145-5-3-4-210618	81	88								
860-6296-10	Cell 17-Square32-5-3-4-210618	72	80								
860-6296-11	Cell 17-Square97-5-3-4-210618	77	86								
860-6296-12	Cell 17-Square120-5-3-4-210618	76	84								
860-6296-13	Cell 17-Square126-5-3-4-210618	74	80								
LCS 860-12354/2-A	Lab Control Sample	108	81								
LCSD 860-12354/3-A	Lab Control Sample Dup	100	80								
MB 860-12354/1-A	Method Blank	81	89								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: 860-6296-A-13-B MS
Matrix: Solid
Analysis Batch: 13231

Client Sample ID: 860-6296-A-13-B MS
Prep Type: Total/NA
Prep Batch: 13148

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.000206	U *	0.0503	0.05006		mg/Kg		100	71 - 119
Toluene	0.000996	U *	0.0503	0.04074		mg/Kg		81	74 - 122
Ethylbenzene	0.000334	U *	0.0503	0.04629		mg/Kg		92	80 - 123
m,p-Xylenes	0.000797	U *	0.101	0.08906		mg/Kg		89	78 - 127
o-Xylene	0.000981	U *	0.0503	0.04565		mg/Kg		91	79 - 125

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

Lab Sample ID: 860-6296-A-13-C MSD
Matrix: Solid
Analysis Batch: 13231

Client Sample ID: 860-6296-A-13-C MSD
Prep Type: Total/NA
Prep Batch: 13148

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.000206	U *	0.0505	0.05027		mg/Kg		100	71 - 119	0	25
Toluene	0.000996	U *	0.0505	0.04148		mg/Kg		82	74 - 122	2	25
Ethylbenzene	0.000334	U *	0.0505	0.04723		mg/Kg		94	80 - 123	2	25
m,p-Xylenes	0.000797	U *	0.101	0.09089		mg/Kg		90	78 - 127	2	25
o-Xylene	0.000981	U *	0.0505	0.04690		mg/Kg		93	79 - 125	3	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*
4-Bromofluorobenzene (Surr)	*105*		*68 - 152*
Dibromofluoromethane (Surr)	*97*		*53 - 142*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 860-13231/9
Matrix: Solid
Analysis Batch: 13231

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			06/30/21 01:36	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			06/30/21 01:36	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			06/30/21 01:36	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			06/30/21 01:36	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			06/30/21 01:36	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			06/30/21 01:36	1
Total BTEX	0.00100	U	0.00500	0.00100	mg/Kg			06/30/21 01:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*		*06/30/21 01:36*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*		*06/30/21 01:36*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*		*06/30/21 01:36*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*06/30/21 01:36*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 860-13231/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13231

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.05230		mg/Kg		105	66 - 142		
Toluene			0.0500	0.04482		mg/Kg		90	74 - 130		
Ethylbenzene			0.0500	0.05100		mg/Kg		102	80 - 130		
m,p-Xylenes			0.100	0.09822		mg/Kg		98	78 - 130		
o-Xylene			0.0500	0.05138		mg/Kg		103	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*
Dibromofluoromethane (Surr)	*98*		*53 - 142*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 860-13231/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13231

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0500	0.04995		mg/Kg		100	66 - 142	5	25
Toluene			0.0500	0.04298		mg/Kg		86	74 - 130	4	25
Ethylbenzene			0.0500	0.04839		mg/Kg		97	80 - 130	5	25
m,p-Xylenes			0.100	0.09296		mg/Kg		93	78 - 130	6	25
o-Xylene			0.0500	0.04903		mg/Kg		98	79 - 130	5	25

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

Lab Sample ID: MB 860-13265/8 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13265

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			06/30/21 12:00	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			06/30/21 12:00	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			06/30/21 12:00	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			06/30/21 12:00	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			06/30/21 12:00	1
Total BTEX	0.001023	J	0.00500	0.00100	mg/Kg			06/30/21 12:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*56 - 150*		*06/30/21 12:00*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*		*06/30/21 12:00*	*1*
Dibromofluoromethane (Surr)	*93*		*53 - 142*		*06/30/21 12:00*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*06/30/21 12:00*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 860-13265/3
Matrix: Solid
Analysis Batch: 13265

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.05495		mg/Kg		110	66 - 142		
Toluene			0.0500	0.04996		mg/Kg		100	74 - 130		
Ethylbenzene			0.0500	0.05609		mg/Kg		112	80 - 130		
m,p-Xylenes			0.100	0.1107		mg/Kg		111	78 - 130		
o-Xylene			0.0500	0.05488		mg/Kg		110	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*56 - 150*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*
Dibromofluoromethane (Surr)	*96*		*53 - 142*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 860-13265/4
Matrix: Solid
Analysis Batch: 13265

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0500	0.05597		mg/Kg		112	66 - 142	2	25
Toluene			0.0500	0.05095		mg/Kg		102	74 - 130	2	25
Ethylbenzene			0.0500	0.05747		mg/Kg		115	80 - 130	2	25
m,p-Xylenes			0.100	0.1121		mg/Kg		112	78 - 130	1	25
o-Xylene			0.0500	0.05553		mg/Kg		111	79 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*84*		*56 - 150*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*
Dibromofluoromethane (Surr)	*97*		*53 - 142*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 860-13310/7
Matrix: Solid
Analysis Batch: 13310

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			06/30/21 15:18	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			06/30/21 15:18	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			06/30/21 15:18	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			06/30/21 15:18	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			06/30/21 15:18	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			06/30/21 15:18	1
Total BTEX	0.00100	U	0.00500	0.00100	mg/Kg			06/30/21 15:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*56 - 150*		*06/30/21 15:18*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*		*06/30/21 15:18*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*		*06/30/21 15:18*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*06/30/21 15:18*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 860-13310/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13310

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.05290		mg/Kg		106	66 - 142		
Toluene			0.0500	0.04356		mg/Kg		87	74 - 130		
Ethylbenzene			0.0500	0.05187		mg/Kg		104	80 - 130		
m,p-Xylenes			0.100	0.1102		mg/Kg		110	78 - 130		
o-Xylene			0.0500	0.04663		mg/Kg		93	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*
Dibromofluoromethane (Surr)	*106*		*53 - 142*
Toluene-d8 (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 860-13310/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13310

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0500	0.05237		mg/Kg		105	66 - 142	1	25
Toluene			0.0500	0.04506		mg/Kg		90	74 - 130	3	25
Ethylbenzene			0.0500	0.05041		mg/Kg		101	80 - 130	3	25
m,p-Xylenes			0.100	0.1078		mg/Kg		108	78 - 130	2	25
o-Xylene			0.0500	0.04597		mg/Kg		92	79 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*56 - 150*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*
Dibromofluoromethane (Surr)	*103*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

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

Lab Sample ID: MB 860-12354/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 12372 **Prep Batch: 12354**

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		06/23/21 09:44	06/23/21 13:25	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		06/23/21 09:44	06/23/21 13:25	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		06/23/21 09:44	06/23/21 13:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*65 - 130*	*06/23/21 09:44*	*06/23/21 13:25*	*1*
o-Terphenyl	*89*		*65 - 130*	*06/23/21 09:44*	*06/23/21 13:25*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 860-12354/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 12372 **Prep Batch: 12354**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	919.5		mg/Kg		92	70 - 135		
Diesel Range Organics (Over C10-C28)			1000	944.7		mg/Kg		94	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*108*		*65 - 130*
o-Terphenyl	*81*		*65 - 130*

Lab Sample ID: LCSD 860-12354/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 12372 **Prep Batch: 12354**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	866.5		mg/Kg		87	70 - 135	6	35
Diesel Range Organics (Over C10-C28)			1000	896.5		mg/Kg		90	70 - 135	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*65 - 130*
o-Terphenyl	*80*		*65 - 130*

Lab Sample ID: 860-6296-1 MS **Client Sample ID: Cell 19-Square47-5-3-4-210618**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 12372 **Prep Batch: 12354**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	21.2	U	1010	799.9		mg/Kg		79	70 - 135		
Diesel Range Organics (Over C10-C28)	21.2	U	1010	836.4		mg/Kg		83	70 - 135		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*94*		*65 - 130*
o-Terphenyl	*75*		*65 - 130*

Lab Sample ID: 860-6296-1 MSD **Client Sample ID: Cell 19-Square47-5-3-4-210618**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 12372 **Prep Batch: 12354**

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	21.2	U	999	843.4		mg/Kg		84	70 - 135	5	35
Diesel Range Organics (Over C10-C28)	21.2	U	999	861.4		mg/Kg		86	70 - 135	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*99*		*65 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: 860-6296-1 MSD **Client Sample ID: Cell 19-Square47-5-3-4-210618**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 12372 **Prep Batch: 12354**

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*80*		*65 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-13086/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13055 **Prep Batch: 13086**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		06/29/21 09:33	06/29/21 09:43	1

Lab Sample ID: LCS 860-13086/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13055 **Prep Batch: 13086**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			100	97.41		mg/Kg		97	80 - 120		

Lab Sample ID: LCSD 860-13086/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13055 **Prep Batch: 13086**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	98.17		mg/Kg		98	80 - 120	1	20

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 13148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6296-4	Cell 19-Square17-5-3-4-210618	Total/NA	Solid	5030C	
860-6296-5	Cell 19-Square168-5-3-4-210618	Total/NA	Solid	5030C	
860-6296-6	Cell 18-Square150-5-3-4-210618	Total/NA	Solid	5030C	
860-6296-7	Cell 18-Square109-5-3-4-210618	Total/NA	Solid	5030C	
860-6296-8	Cell 18-Square156-5-3-4-210618	Total/NA	Solid	5030C	
860-6296-9	Cell 18-Square145-5-3-4-210618	Total/NA	Solid	5030C	
860-6296-10	Cell 17-Square32-5-3-4-210618	Total/NA	Solid	5030C	
860-6296-11	Cell 17-Square97-5-3-4-210618	Total/NA	Solid	5030C	
860-6296-12	Cell 17-Square120-5-3-4-210618	Total/NA	Solid	5030C	
860-6296-A-13-B MS	860-6296-A-13-B MS	Total/NA	Solid	5030C	
860-6296-A-13-C MSD	860-6296-A-13-C MSD	Total/NA	Solid	5030C	

Analysis Batch: 13231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6296-4	Cell 19-Square17-5-3-4-210618	Total/NA	Solid	8260C	13148
860-6296-5	Cell 19-Square168-5-3-4-210618	Total/NA	Solid	8260C	13148
860-6296-6	Cell 18-Square150-5-3-4-210618	Total/NA	Solid	8260C	13148
860-6296-7	Cell 18-Square109-5-3-4-210618	Total/NA	Solid	8260C	13148
860-6296-8	Cell 18-Square156-5-3-4-210618	Total/NA	Solid	8260C	13148
860-6296-9	Cell 18-Square145-5-3-4-210618	Total/NA	Solid	8260C	13148
860-6296-10	Cell 17-Square32-5-3-4-210618	Total/NA	Solid	8260C	13148
860-6296-11	Cell 17-Square97-5-3-4-210618	Total/NA	Solid	8260C	13148
860-6296-12	Cell 17-Square120-5-3-4-210618	Total/NA	Solid	8260C	13148
MB 860-13231/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-13231/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-13231/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-6296-A-13-B MS	860-6296-A-13-B MS	Total/NA	Solid	8260C	13148
860-6296-A-13-C MSD	860-6296-A-13-C MSD	Total/NA	Solid	8260C	13148

Analysis Batch: 13265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6296-1	Cell 19-Square47-5-3-4-210618	Total/NA	Solid	8260C	13321
860-6296-2	Cell 20-Square118-5-2-3-210617	Total/NA	Solid	8260C	13321
860-6296-3	Cell 19-Square73-5-3-4-210618	Total/NA	Solid	8260C	13321
860-6296-13	Cell 17-Square126-5-3-4-210618	Total/NA	Solid	8260C	13321
MB 860-13265/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-13265/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-13265/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 13310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6296-1	Cell 19-Square47-5-3-4-210618	Total/NA	Solid	8260C	13321
860-6296-2	Cell 20-Square118-5-2-3-210617	Total/NA	Solid	8260C	13321
860-6296-3	Cell 19-Square73-5-3-4-210618	Total/NA	Solid	8260C	13321
860-6296-13	Cell 17-Square126-5-3-4-210618	Total/NA	Solid	8260C	13321
MB 860-13310/7	Method Blank	Total/NA	Solid	8260C	
LCS 860-13310/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-13310/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 13321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6296-1	Cell 19-Square47-5-3-4-210618	Total/NA	Solid	5030C	
860-6296-1	Cell 19-Square47-5-3-4-210618	Total/NA	Solid	5030C	
860-6296-2	Cell 20-Square118-5-2-3-210617	Total/NA	Solid	5030C	
860-6296-2	Cell 20-Square118-5-2-3-210617	Total/NA	Solid	5030C	
860-6296-3	Cell 19-Square73-5-3-4-210618	Total/NA	Solid	5030C	
860-6296-3	Cell 19-Square73-5-3-4-210618	Total/NA	Solid	5030C	
860-6296-13	Cell 17-Square126-5-3-4-210618	Total/NA	Solid	5030C	
860-6296-13	Cell 17-Square126-5-3-4-210618	Total/NA	Solid	5030C	

GC Semi VOA

Prep Batch: 12354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6296-1	Cell 19-Square47-5-3-4-210618	Total/NA	Solid	8015NM Prep	
860-6296-2	Cell 20-Square118-5-2-3-210617	Total/NA	Solid	8015NM Prep	
860-6296-3	Cell 19-Square73-5-3-4-210618	Total/NA	Solid	8015NM Prep	
860-6296-4	Cell 19-Square17-5-3-4-210618	Total/NA	Solid	8015NM Prep	
860-6296-5	Cell 19-Square168-5-3-4-210618	Total/NA	Solid	8015NM Prep	
860-6296-6	Cell 18-Square150-5-3-4-210618	Total/NA	Solid	8015NM Prep	
860-6296-7	Cell 18-Square109-5-3-4-210618	Total/NA	Solid	8015NM Prep	
860-6296-8	Cell 18-Square156-5-3-4-210618	Total/NA	Solid	8015NM Prep	
860-6296-9	Cell 18-Square145-5-3-4-210618	Total/NA	Solid	8015NM Prep	
860-6296-10	Cell 17-Square32-5-3-4-210618	Total/NA	Solid	8015NM Prep	
860-6296-11	Cell 17-Square97-5-3-4-210618	Total/NA	Solid	8015NM Prep	
860-6296-12	Cell 17-Square120-5-3-4-210618	Total/NA	Solid	8015NM Prep	
860-6296-13	Cell 17-Square126-5-3-4-210618	Total/NA	Solid	8015NM Prep	
MB 860-12354/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-12354/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-12354/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
860-6296-1 MS	Cell 19-Square47-5-3-4-210618	Total/NA	Solid	8015NM Prep	
860-6296-1 MSD	Cell 19-Square47-5-3-4-210618	Total/NA	Solid	8015NM Prep	

Analysis Batch: 12372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6296-1	Cell 19-Square47-5-3-4-210618	Total/NA	Solid	8015B NM	12354
860-6296-2	Cell 20-Square118-5-2-3-210617	Total/NA	Solid	8015B NM	12354
860-6296-3	Cell 19-Square73-5-3-4-210618	Total/NA	Solid	8015B NM	12354
860-6296-4	Cell 19-Square17-5-3-4-210618	Total/NA	Solid	8015B NM	12354
860-6296-5	Cell 19-Square168-5-3-4-210618	Total/NA	Solid	8015B NM	12354
860-6296-6	Cell 18-Square150-5-3-4-210618	Total/NA	Solid	8015B NM	12354
860-6296-7	Cell 18-Square109-5-3-4-210618	Total/NA	Solid	8015B NM	12354
860-6296-8	Cell 18-Square156-5-3-4-210618	Total/NA	Solid	8015B NM	12354
860-6296-9	Cell 18-Square145-5-3-4-210618	Total/NA	Solid	8015B NM	12354
860-6296-10	Cell 17-Square32-5-3-4-210618	Total/NA	Solid	8015B NM	12354
860-6296-11	Cell 17-Square97-5-3-4-210618	Total/NA	Solid	8015B NM	12354
860-6296-12	Cell 17-Square120-5-3-4-210618	Total/NA	Solid	8015B NM	12354
860-6296-13	Cell 17-Square126-5-3-4-210618	Total/NA	Solid	8015B NM	12354
MB 860-12354/1-A	Method Blank	Total/NA	Solid	8015B NM	12354
LCS 860-12354/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12354
LCSD 860-12354/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12354
860-6296-1 MS	Cell 19-Square47-5-3-4-210618	Total/NA	Solid	8015B NM	12354

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Analysis Batch: 12372 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6296-1 MSD	Cell 19-Square47-5-3-4-210618	Total/NA	Solid	8015B NM	12354

HPLC/IC

Analysis Batch: 13055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6296-1	Cell 19-Square47-5-3-4-210618	Total/NA	Solid	300.0	13086
860-6296-2	Cell 20-Square118-5-2-3-210617	Total/NA	Solid	300.0	13086
860-6296-3	Cell 19-Square73-5-3-4-210618	Total/NA	Solid	300.0	13086
860-6296-4	Cell 19-Square17-5-3-4-210618	Total/NA	Solid	300.0	13086
860-6296-5	Cell 19-Square168-5-3-4-210618	Total/NA	Solid	300.0	13086
860-6296-6	Cell 18-Square150-5-3-4-210618	Total/NA	Solid	300.0	13086
860-6296-7	Cell 18-Square109-5-3-4-210618	Total/NA	Solid	300.0	13086
860-6296-8	Cell 18-Square156-5-3-4-210618	Total/NA	Solid	300.0	13086
860-6296-9	Cell 18-Square145-5-3-4-210618	Total/NA	Solid	300.0	13086
860-6296-10	Cell 17-Square32-5-3-4-210618	Total/NA	Solid	300.0	13086
860-6296-11	Cell 17-Square97-5-3-4-210618	Total/NA	Solid	300.0	13086
860-6296-12	Cell 17-Square120-5-3-4-210618	Total/NA	Solid	300.0	13086
860-6296-13	Cell 17-Square126-5-3-4-210618	Total/NA	Solid	300.0	13086
MB 860-13086/1-A	Method Blank	Total/NA	Solid	300.0	13086
LCS 860-13086/2-A	Lab Control Sample	Total/NA	Solid	300.0	13086
LCSD 860-13086/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	13086

Prep Batch: 13086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6296-1	Cell 19-Square47-5-3-4-210618	Total/NA	Solid	300_Prep	
860-6296-2	Cell 20-Square118-5-2-3-210617	Total/NA	Solid	300_Prep	
860-6296-3	Cell 19-Square73-5-3-4-210618	Total/NA	Solid	300_Prep	
860-6296-4	Cell 19-Square17-5-3-4-210618	Total/NA	Solid	300_Prep	
860-6296-5	Cell 19-Square168-5-3-4-210618	Total/NA	Solid	300_Prep	
860-6296-6	Cell 18-Square150-5-3-4-210618	Total/NA	Solid	300_Prep	
860-6296-7	Cell 18-Square109-5-3-4-210618	Total/NA	Solid	300_Prep	
860-6296-8	Cell 18-Square156-5-3-4-210618	Total/NA	Solid	300_Prep	
860-6296-9	Cell 18-Square145-5-3-4-210618	Total/NA	Solid	300_Prep	
860-6296-10	Cell 17-Square32-5-3-4-210618	Total/NA	Solid	300_Prep	
860-6296-11	Cell 17-Square97-5-3-4-210618	Total/NA	Solid	300_Prep	
860-6296-12	Cell 17-Square120-5-3-4-210618	Total/NA	Solid	300_Prep	
860-6296-13	Cell 17-Square126-5-3-4-210618	Total/NA	Solid	300_Prep	
MB 860-13086/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-13086/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-13086/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 19-Square47-5-3-4-210618 Lab Sample ID: 860-6296-1

Date Collected: 06/18/21 09:56 **Matrix: Solid**
Date Received: 06/19/21 10:09

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	13321	06/30/21 11:50	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 g	5 mL	13265	06/30/21 14:24	CSP	XEN STF
Total/NA	Prep	5030C			5.04 g	5 mL	13321	06/30/21 16:45	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	13310	06/30/21 17:47	KLV	XEN STF
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	12354	06/23/21 09:44	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12372	06/23/21 13:46	IS	XEN STF
Total/NA	Prep	300_Prep			5.03 g	50 mL	13086	06/29/21 09:33	JM	XEN STF
Total/NA	Analysis	300.0		1			13055	06/29/21 17:40	JM	XEN STF

Client Sample ID: Cell 20-Square118-5-2-3-210617 Lab Sample ID: 860-6296-2

Date Collected: 06/18/21 10:20 **Matrix: Solid**
Date Received: 06/19/21 10:09

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	13321	06/30/21 11:50	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 g	5 mL	13265	06/30/21 14:44	CSP	XEN STF
Total/NA	Prep	5030C			5.05 g	5 mL	13321	06/30/21 18:00	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	13310	06/30/21 18:47	KLV	XEN STF
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	12354	06/23/21 09:44	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12372	06/23/21 14:50	IS	XEN STF
Total/NA	Prep	300_Prep			4.96 g	50 mL	13086	06/29/21 09:33	JM	XEN STF
Total/NA	Analysis	300.0		1			13055	06/29/21 17:51	JM	XEN STF

Client Sample ID: Cell 19-Square73-5-3-4-210618 Lab Sample ID: 860-6296-3

Date Collected: 06/18/21 10:30 **Matrix: Solid**
Date Received: 06/19/21 10:09

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	13321	06/30/21 11:50	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 g	5 mL	13265	06/30/21 15:04	CSP	XEN STF
Total/NA	Prep	5030C			4.99 g	5 mL	13321	06/30/21 16:45	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	13310	06/30/21 18:07	KLV	XEN STF
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	12354	06/23/21 09:44	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12372	06/23/21 15:12	IS	XEN STF
Total/NA	Prep	300_Prep			4.98 g	50 mL	13086	06/29/21 09:33	JM	XEN STF
Total/NA	Analysis	300.0		1			13055	06/29/21 18:01	JM	XEN STF

Client Sample ID: Cell 19-Square17-5-3-4-210618 Lab Sample ID: 860-6296-4

Date Collected: 06/18/21 10:55 **Matrix: Solid**
Date Received: 06/19/21 10:09

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	13148	06/29/21 13:02	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	13231	06/30/21 02:16	KLV	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 19-Square17-5-3-4-210618 Lab Sample ID: 860-6296-4

Date Collected: 06/18/21 10:55 **Matrix: Solid**
Date Received: 06/19/21 10:09

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			9.95 g	10 mL	12354	06/23/21 09:44	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12372	06/23/21 15:33	IS	XEN STF
Total/NA	Prep	300_Prep			4.95 g	50 mL	13086	06/29/21 09:33	JM	XEN STF
Total/NA	Analysis	300.0		1			13055	06/29/21 18:32	JM	XEN STF

Client Sample ID: Cell 19-Square168-5-3-4-210618 Lab Sample ID: 860-6296-5

Date Collected: 06/18/21 11:25 **Matrix: Solid**
Date Received: 06/19/21 10:09

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	13148	06/29/21 13:02	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	13231	06/30/21 02:36	KLV	XEN STF
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	12354	06/23/21 09:44	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12372	06/23/21 15:55	IS	XEN STF
Total/NA	Prep	300_Prep			5.01 g	50 mL	13086	06/29/21 09:33	JM	XEN STF
Total/NA	Analysis	300.0		1			13055	06/29/21 18:43	JM	XEN STF

Client Sample ID: Cell 18-Square150-5-3-4-210618 Lab Sample ID: 860-6296-6

Date Collected: 06/18/21 11:55 **Matrix: Solid**
Date Received: 06/19/21 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.95 g	5 mL	13148	06/29/21 13:02	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	13231	06/30/21 02:56	KLV	XEN STF
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12354	06/23/21 09:44	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12372	06/23/21 16:38	IS	XEN STF
Total/NA	Prep	300_Prep			4.96 g	50 mL	13086	06/29/21 09:33	JM	XEN STF
Total/NA	Analysis	300.0		1			13055	06/29/21 18:53	JM	XEN STF

Client Sample ID: Cell 18-Square109-5-3-4-210618 Lab Sample ID: 860-6296-7

Date Collected: 06/18/21 12:30 **Matrix: Solid**
Date Received: 06/19/21 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.97 g	5 mL	13148	06/29/21 13:02	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	13231	06/30/21 03:15	KLV	XEN STF
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	12354	06/23/21 09:44	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12372	06/23/21 17:00	IS	XEN STF
Total/NA	Prep	300_Prep			5.00 g	50 mL	13086	06/29/21 09:33	JM	XEN STF
Total/NA	Analysis	300.0		1			13055	06/29/21 19:03	JM	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-Square156-5-3-4-210618 Lab Sample ID: 860-6296-8

Date Collected: 06/18/21 12:55 **Matrix: Solid**
Date Received: 06/19/21 10:09

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	13148	06/29/21 13:02	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	13231	06/30/21 03:35	KLV	XEN STF
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	12354	06/23/21 09:44	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12372	06/23/21 17:53	IS	XEN STF
Total/NA	Prep	300_Prep			5.06 g	50 mL	13086	06/29/21 09:33	JM	XEN STF
Total/NA	Analysis	300.0		1			13055	06/29/21 19:14	JM	XEN STF

Client Sample ID: Cell 18-Square145-5-3-4-210618 Lab Sample ID: 860-6296-9

Date Collected: 06/18/21 13:34 **Matrix: Solid**
Date Received: 06/19/21 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.95 g	5 mL	13148	06/29/21 13:02	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	13231	06/30/21 03:55	KLV	XEN STF
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	12354	06/23/21 09:44	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12372	06/23/21 18:14	IS	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	13086	06/29/21 09:33	JM	XEN STF
Total/NA	Analysis	300.0		1			13055	06/29/21 19:24	JM	XEN STF

Client Sample ID: Cell 17-Square32-5-3-4-210618 Lab Sample ID: 860-6296-10

Date Collected: 06/18/21 13:57 **Matrix: Solid**
Date Received: 06/19/21 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.95 g	5 mL	13148	06/29/21 13:02	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	13231	06/30/21 04:15	KLV	XEN STF
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	12354	06/23/21 09:44	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12372	06/23/21 18:36	IS	XEN STF
Total/NA	Prep	300_Prep			4.96 g	50 mL	13086	06/29/21 09:33	JM	XEN STF
Total/NA	Analysis	300.0		1			13055	06/29/21 19:35	JM	XEN STF

Client Sample ID: Cell 17-Square97-5-3-4-210618 Lab Sample ID: 860-6296-11

Date Collected: 06/18/21 14:20 **Matrix: Solid**
Date Received: 06/19/21 10:09

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	13148	06/29/21 13:02	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	13231	06/30/21 04:35	KLV	XEN STF
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	12354	06/23/21 09:44	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12372	06/23/21 18:57	IS	XEN STF
Total/NA	Prep	300_Prep			4.99 g	50 mL	13086	06/29/21 09:33	JM	XEN STF
Total/NA	Analysis	300.0		1			13055	06/29/21 19:45	JM	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square120-5-3-4-210618 Lab Sample ID: 860-6296-12

Date Collected: 06/18/21 14:40 **Matrix: Solid**
Date Received: 06/19/21 10:09

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	13148	06/29/21 13:02	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	13231	06/30/21 04:55	KLV	XEN STF
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	12354	06/23/21 09:44	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12372	06/23/21 19:19	IS	XEN STF
Total/NA	Prep	300_Prep			5.02 g	50 mL	13086	06/29/21 09:33	JM	XEN STF
Total/NA	Analysis	300.0		1			13055	06/29/21 19:56	JM	XEN STF

Client Sample ID: Cell 17-Square126-5-3-4-210618 Lab Sample ID: 860-6296-13

Date Collected: 06/18/21 15:08 **Matrix: Solid**
Date Received: 06/19/21 10:09

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	13321	06/30/21 11:50	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 g	5 mL	13265	06/30/21 14:03	CSP	XEN STF
Total/NA	Prep	5030C			4.95 g	5 mL	13321	06/30/21 16:45	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	13310	06/30/21 18:27	KLV	XEN STF
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	12354	06/23/21 09:44	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			12372	06/23/21 19:40	IS	XEN STF
Total/NA	Prep	300_Prep			5.04 g	50 mL	13086	06/29/21 09:33	JM	XEN STF
Total/NA	Analysis	300.0		1			13055	06/29/21 20:06	JM	XEN STF

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-6296-1
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	20-025-0	08-04-21
Florida	NELAP	E871002	06-30-21
Louisiana	NELAP	03054	06-30-21
North Carolina (WW/SW)	State	681	12-31-21
Oklahoma	State	1306	08-31-21
Texas	NELAP	T104704215-21-42	06-30-21
USDA	US Federal Programs	P330-19-00137	04-24-22

Method Summary

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

Job ID: 860-6296-1

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
300.0	Anions, Ion Chromatography	MCAWW	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.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4147 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: 860-6296-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
860-6296-1	Cell 19-Square47-5-3-4-210618	Solid	06/18/21 09:56	06/19/21 10:09	
860-6296-2	Cell 20-Square118-5-2-3-210617	Solid	06/18/21 10:20	06/19/21 10:09	
860-6296-3	Cell 19-Square73-5-3-4-210618	Solid	06/18/21 10:30	06/19/21 10:09	
860-6296-4	Cell 19-Square17-5-3-4-210618	Solid	06/18/21 10:55	06/19/21 10:09	
860-6296-5	Cell 19-Square168-5-3-4-210618	Solid	06/18/21 11:25	06/19/21 10:09	
860-6296-6	Cell 18-Square150-5-3-4-210618	Solid	06/18/21 11:55	06/19/21 10:09	
860-6296-7	Cell 18-Square109-5-3-4-210618	Solid	06/18/21 12:30	06/19/21 10:09	
860-6296-8	Cell 18-Square156-5-3-4-210618	Solid	06/18/21 12:55	06/19/21 10:09	
860-6296-9	Cell 18-Square145-5-3-4-210618	Solid	06/18/21 13:34	06/19/21 10:09	
860-6296-10	Cell 17-Square32-5-3-4-210618	Solid	06/18/21 13:57	06/19/21 10:09	
860-6296-11	Cell 17-Square97-5-3-4-210618	Solid	06/18/21 14:20	06/19/21 10:09	
860-6296-12	Cell 17-Square120-5-3-4-210618	Solid	06/18/21 14:40	06/19/21 10:09	
860-6296-13	Cell 17-Square126-5-3-4-210618	Solid	06/18/21 15:08	06/19/21 10:09	

Released to Imaging: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

860-6296 Chain of Custody

eurofins

Client Information	Sampler: Justin Steinmann	Lab PM: Kudchadkar S.	COC No: 860-2093-712.1
Client Contact: Sarah Johnson	Phone: 619 851 8792	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: ~~TX~~ NM 6/18	Page: Page 1 of 2
Company: ARCADIS U.S. Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): 8td			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 303-316-6506(Tel)	PO #: Purchase Order Requested			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jal Landfarm	SSOW#:			

Analysis Requested

Temp: 5.4 IR ID HOU-272
C/F: +0.1
Corrected Temp: 5.5

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)	300_ORGFM_ Chloride	8260C BTEX	8015- GRO/DRO/ORO	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	X	
Square47-S-3-4-210618	6/18/21	0956	G	Solid			/	/	/	2	
-Square118-~~S-3-3~~-210617	6/18/21	1020	G	Solid			/	/	/	2	
-Square73-S-3-4-210618	6/18/21	1030	G	Solid			/	/	/	2	
-Square17-S-3-4-210618	6/18/21	1055	G	Solid			/	/	/	2	
1-Square168-S-3-4-210618	6/18/21	1125	G	Solid			/	/	/	2	
Ce 8-Square150-S-3-4-210618	6/18/21	1155	G	Solid			/	/	/	2	
Ce 18-Square109-S-3-4-210618	6/18/21	1230	G	Solid			/	/	/	2	
Cell18-Square156-S-3-4-210618	6/18/21	1255	G	Solid			/	/	/	2	
Cell18-Square145-S-3-4-210618	6/18/21	1334	G	Solid			/	/	/	2	
Cell17-Square32-S-3-4-210618	6/18/21	1357	G	Solid			/	/	/	2	
Cell17-Square97-S-3-4-210618	6/18/21	1420	G	Solid			/	/	/	2	

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: 6/18/21 1700	Company: Arcadis	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 6/19/21 10:09	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

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Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

eurofins

Chain of Custody Record

Client Information	Sampler: Justin Steinmann	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-2093-712.1
Client Contact: Sarah Johnson	Phone: 619 851 8792	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: NM	Page: Page 202
Company: ARCADIS U.S. Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): std			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 303-316-6506(Tel)	PO #: Purchase Order Requested			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jal Landfarm	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)	300_ORGFM_ Chloride	8260C BTEX	8015- GRO/DRO/ORO	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	X	
Cell17-Square20-5-3-4-210618	6/18/21	1440	G	Solid			/	/	/	2	
Cell17-Square126-5-3-4-210618	6/18/21	1508	G	Solid			/	/	/	2	
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							

6/18/21

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: 6/18/21 1700	Company Arcadis	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 6/19/21 10:54	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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-6296-1

Login Number: 6296 **List Source: Eurofins Xenco, Stafford**
List Number: 1
Creator: Torrez, Lisandra

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.	True	

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ANALYTICAL REPORT

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-6594-1
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:
7/7/2021 8:54:57 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: 860-6594-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
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.

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: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-6594-1

Laboratory: Eurofins Xenco, Stafford

Narrative

Job Narrative
860-6594-1

Receipt
The samples were received on 6/24/2021 11:46 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
Method 8260C: The following samples were diluted due to being a light soil/sand: Cell26-Square 65-S-3-4-210622 (860-6594-12) and (860-6594-B-12-C MS). Elevated reporting limits (RL) 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.

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

Released to Imaging: 4/20/2022 8:49:45 AM

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square 49-S-3-4-210622 — Lab Sample ID: 860-6594-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.000944	J	0.00101	0.000209	mg/Kg	1		8260C	Total/NA
Chloride	99.6		10.0	3.54	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell26-Square 32-S-3-4-210622 — Lab Sample ID: 860-6594-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.000726	J	0.000992	0.000205	mg/Kg	1		8260C	Total/NA
Toluene	0.00277	J	0.00496	0.000992	mg/Kg	1		8260C	Total/NA
Total BTEX	0.00350	J	0.00496	0.000992	mg/Kg	1		8260C	Total/NA
Chloride	8.23	J	10.0	3.54	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell26-Square-134-S-3-4-210622 — Lab Sample ID: 860-6594-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m,p-Xylenes	0.00105	J	0.00202	0.000808	mg/Kg	1		8260C	Total/NA
Xylenes, Total	0.00105	J	0.00202	0.000995	mg/Kg	1		8260C	Total/NA
Total BTEX	0.00105	J	0.00505	0.00101	mg/Kg	1		8260C	Total/NA
Chloride	18.9		9.94	3.52	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell26-Square 206-S-3-4-210622 — Lab Sample ID: 860-6594-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.93	J	9.98	3.53	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell26-Square-198-S-3-4-210622 — Lab Sample ID: 860-6594-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00133	J	0.00496	0.000992	mg/Kg	1		8260C	Total/NA
m,p-Xylenes	0.00108	J	0.00198	0.000794	mg/Kg	1		8260C	Total/NA
Xylenes, Total	0.00108	J	0.00198	0.000977	mg/Kg	1		8260C	Total/NA
Total BTEX	0.00241	J	0.00496	0.000992	mg/Kg	1		8260C	Total/NA
Chloride	4.96	J	10.1	3.59	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell26-Square 75-S-3-4-210622 — Lab Sample ID: 860-6594-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00251		0.00100	0.000207	mg/Kg	1		8260C	Total/NA
Toluene	0.00883		0.00500	0.00100	mg/Kg	1		8260C	Total/NA
Ethylbenzene	0.00188		0.00100	0.000336	mg/Kg	1		8260C	Total/NA
m,p-Xylenes	0.00807		0.00200	0.000800	mg/Kg	1		8260C	Total/NA
o-Xylene	0.00284		0.00100	0.000985	mg/Kg	1		8260C	Total/NA
Xylenes, Total	0.0109		0.00200	0.000985	mg/Kg	1		8260C	Total/NA
Total BTEX	0.0241		0.00500	0.00100	mg/Kg	1		8260C	Total/NA
Chloride	7.52	J	10.1	3.58	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell26-Square 14-S-3-4-210622 — Lab Sample ID: 860-6594-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00181		0.000998	0.000207	mg/Kg	1		8260C	Total/NA
Toluene	0.00585		0.00499	0.000998	mg/Kg	1		8260C	Total/NA
Ethylbenzene	0.00132		0.000998	0.000335	mg/Kg	1		8260C	Total/NA
m,p-Xylenes	0.00576		0.00200	0.000798	mg/Kg	1		8260C	Total/NA
o-Xylene	0.00218		0.000998	0.000983	mg/Kg	1		8260C	Total/NA
Xylenes, Total	0.00794		0.00200	0.000983	mg/Kg	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Stafford

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square 14-S-3-4-210622 (Continued) — Lab Sample ID: 860-6594-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total BTEX	0.0169		0.00499	0.000998	mg/Kg	1		8260C	Total/NA
Chloride	150		10.0	3.55	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell26-Square 67-S-3-4-210622 — Lab Sample ID: 860-6594-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00267		0.00100	0.000207	mg/Kg	1		8260C	Total/NA
Toluene	0.00890		0.00500	0.00100	mg/Kg	1		8260C	Total/NA
Ethylbenzene	0.00163		0.00100	0.000336	mg/Kg	1		8260C	Total/NA
m,p-Xylenes	0.00687		0.00200	0.000800	mg/Kg	1		8260C	Total/NA
o-Xylene	0.00235		0.00100	0.000985	mg/Kg	1		8260C	Total/NA
Xylenes, Total	0.00922		0.00200	0.000985	mg/Kg	1		8260C	Total/NA
Total BTEX	0.0224		0.00500	0.00100	mg/Kg	1		8260C	Total/NA
Chloride	5.68	J	9.94	3.52	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell26-Square 180-S-3-4-210622 — Lab Sample ID: 860-6594-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00199		0.000998	0.000207	mg/Kg	1		8260C	Total/NA
Toluene	0.00603		0.00499	0.000998	mg/Kg	1		8260C	Total/NA
Ethylbenzene	0.00133		0.000998	0.000335	mg/Kg	1		8260C	Total/NA
m,p-Xylenes	0.00580		0.00200	0.000798	mg/Kg	1		8260C	Total/NA
o-Xylene	0.00210		0.000998	0.000983	mg/Kg	1		8260C	Total/NA
Xylenes, Total	0.00790		0.00200	0.000983	mg/Kg	1		8260C	Total/NA
Total BTEX	0.0173		0.00499	0.000998	mg/Kg	1		8260C	Total/NA
Chloride	4.81	J	9.92	3.51	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell26-Square 83-S-3-4-210622 — Lab Sample ID: 860-6594-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00184		0.000992	0.000205	mg/Kg	1		8260C	Total/NA
Toluene	0.00523		0.00496	0.000992	mg/Kg	1		8260C	Total/NA
Ethylbenzene	0.00118		0.000992	0.000333	mg/Kg	1		8260C	Total/NA
m,p-Xylenes	0.00499		0.00198	0.000794	mg/Kg	1		8260C	Total/NA
o-Xylene	0.00184		0.000992	0.000977	mg/Kg	1		8260C	Total/NA
Xylenes, Total	0.00683		0.00198	0.000977	mg/Kg	1		8260C	Total/NA
Total BTEX	0.0151		0.00496	0.000992	mg/Kg	1		8260C	Total/NA
Chloride	5.21	J	10.1	3.57	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell26-Square 35-S-3-4-210622 — Lab Sample ID: 860-6594-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00129	J	0.00497	0.000994	mg/Kg	1		8260C	Total/NA
m,p-Xylenes	0.00131	J	0.00199	0.000795	mg/Kg	1		8260C	Total/NA
Xylenes, Total	0.00131	J	0.00199	0.000979	mg/Kg	1		8260C	Total/NA
Total BTEX	0.00260	J	0.00497	0.000994	mg/Kg	1		8260C	Total/NA
Chloride	5.71	J	9.96	3.53	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell26-Square 65-S-3-4-210622 — Lab Sample ID: 860-6594-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.000639	J	0.000996	0.000206	mg/Kg	1		8260C	Total/NA
Toluene	0.00134	J	0.00498	0.000996	mg/Kg	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Stafford

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square 65-S-3-4-210622 (Continued) Lab Sample ID: 860-6594-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m,p-Xylenes	0.00138	J	0.00199	0.000797	mg/Kg	1		8260C	Total/NA
Xylenes, Total	0.00138	J	0.00199	0.000981	mg/Kg	1		8260C	Total/NA
Total BTEX	0.00336	J	0.00498	0.000996	mg/Kg	1		8260C	Total/NA
Chloride	5.16	J	10.1	3.56	mg/Kg	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square 49-S-3-4-210622 Lab Sample ID: 860-6594-1

Date Collected: 06/22/21 10:30 **Matrix: Solid**
Date Received: 06/24/21 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000944**	**J**	0.00101	0.000209	mg/Kg		06/30/21 11:50	06/30/21 17:41	1
Toluene	0.00101	U	0.00504	0.00101	mg/Kg		06/30/21 11:50	06/30/21 17:41	1
Ethylbenzene	0.000338	U	0.00101	0.000338	mg/Kg		06/30/21 11:50	06/30/21 17:41	1
m,p-Xylenes	0.000806	U	0.00202	0.000806	mg/Kg		06/30/21 11:50	06/30/21 17:41	1
o-Xylene	0.000993	U	0.00101	0.000993	mg/Kg		06/30/21 11:50	06/30/21 17:41	1
Xylenes, Total	0.000993	U	0.00202	0.000993	mg/Kg		06/30/21 11:50	06/30/21 17:41	1
Total BTEX	0.00101	U	0.00504	0.00101	mg/Kg		06/30/21 11:50	06/30/21 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*	*06/30/21 11:50*	*06/30/21 17:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*06/30/21 11:50*	*06/30/21 17:41*	*1*
Dibromofluoromethane (Surr)	*94*		*53 - 142*	*06/30/21 11:50*	*06/30/21 17:41*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*06/30/21 11:50*	*06/30/21 17:41*	*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	50.4	21.2	mg/Kg		07/01/21 09:03	07/01/21 19:13	1
Diesel Range Organics (Over C10-C28)	21.2	U	50.4	21.2	mg/Kg		07/01/21 09:03	07/01/21 19:13	1
OII Range Organics (Over C28-C36)	21.2	U	50.4	21.2	mg/Kg		07/01/21 09:03	07/01/21 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*65 - 130*	*07/01/21 09:03*	*07/01/21 19:13*	*1*
o-Terphenyl	*102*		*65 - 130*	*07/01/21 09:03*	*07/01/21 19:13*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99.6**		10.0	3.54	mg/Kg		07/02/21 07:04	07/02/21 08:15	1

Client Sample ID: Cell26-Square 32-S-3-4-210622 Lab Sample ID: 860-6594-2

Date Collected: 06/22/21 11:10 **Matrix: Solid**
Date Received: 06/24/21 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000726**	**J**	0.000992	0.000205	mg/Kg		06/29/21 20:06	06/30/21 15:39	1
Toluene	**0.00277**	**J**	0.00496	0.000992	mg/Kg		06/29/21 20:06	06/30/21 15:39	1
Ethylbenzene	0.000333	U	0.000992	0.000333	mg/Kg		06/29/21 20:06	06/30/21 15:39	1
m,p-Xylenes	0.000794	U	0.00198	0.000794	mg/Kg		06/29/21 20:06	06/30/21 15:39	1
o-Xylene	0.000977	U	0.000992	0.000977	mg/Kg		06/29/21 20:06	06/30/21 15:39	1
Xylenes, Total	0.000977	U	0.00198	0.000977	mg/Kg		06/29/21 20:06	06/30/21 15:39	1
Total BTEX	**0.00350**	**J**	0.00496	0.000992	mg/Kg		06/29/21 20:06	06/30/21 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*	*06/29/21 20:06*	*06/30/21 15:39*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*06/29/21 20:06*	*06/30/21 15:39*	*1*
Dibromofluoromethane (Surr)	*101*		*53 - 142*	*06/29/21 20:06*	*06/30/21 15:39*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*06/29/21 20:06*	*06/30/21 15:39*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square 32-S-3-4-210622 Lab Sample ID: 860-6594-2

Date Collected: 06/22/21 11:10 **Matrix: Solid**
Date Received: 06/24/21 11:46

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		07/01/21 09:03	07/01/21 20:09	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.7	21.0	mg/Kg		07/01/21 09:03	07/01/21 20:09	1
OII Range Organics (Over C28-C36)	21.0	U	49.7	21.0	mg/Kg		07/01/21 09:03	07/01/21 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*65 - 130*	*07/01/21 09:03*	*07/01/21 20:09*	*1*
o-Terphenyl	*107*		*65 - 130*	*07/01/21 09:03*	*07/01/21 20:09*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.23**	**J**	10.0	3.54	mg/Kg		07/02/21 07:04	07/02/21 08:47	1

Client Sample ID: Cell26-Square-134-S-3-4-210622 Lab Sample ID: 860-6594-3

Date Collected: 06/22/21 11:30 **Matrix: Solid**
Date Received: 06/24/21 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000209	U	0.00101	0.000209	mg/Kg		07/03/21 14:22	07/03/21 16:22	1
Toluene	0.00101	U	0.00505	0.00101	mg/Kg		07/03/21 14:22	07/03/21 16:22	1
Ethylbenzene	0.000339	U	0.00101	0.000339	mg/Kg		07/03/21 14:22	07/03/21 16:22	1
m,p-Xylenes	**0.00105**	**J**	0.00202	0.000808	mg/Kg		07/03/21 14:22	07/03/21 16:22	1
o-Xylene	0.000995	U	0.00101	0.000995	mg/Kg		07/03/21 14:22	07/03/21 16:22	1
Xylenes, Total	**0.00105**	**J**	0.00202	0.000995	mg/Kg		07/03/21 14:22	07/03/21 16:22	1
Total BTEX	**0.00105**	**J**	0.00505	0.00101	mg/Kg		07/03/21 14:22	07/03/21 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*56 - 150*	*07/03/21 14:22*	*07/03/21 16:22*	*1*
4-Bromofluorobenzene (Surr)	*88*		*68 - 152*	*07/03/21 14:22*	*07/03/21 16:22*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*	*07/03/21 14:22*	*07/03/21 16:22*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*	*07/03/21 14:22*	*07/03/21 16:22*	*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	20.9	U	49.6	20.9	mg/Kg		07/01/21 09:03	07/01/21 20:28	1
Diesel Range Organics (Over C10-C28)	20.9	U	49.6	20.9	mg/Kg		07/01/21 09:03	07/01/21 20:28	1
OII Range Organics (Over C28-C36)	20.9	U	49.6	20.9	mg/Kg		07/01/21 09:03	07/01/21 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*65 - 130*	*07/01/21 09:03*	*07/01/21 20:28*	*1*
o-Terphenyl	*104*		*65 - 130*	*07/01/21 09:03*	*07/01/21 20:28*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.9**		9.94	3.52	mg/Kg		07/02/21 07:04	07/02/21 09:18	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square 206-S-3-4-210622 Lab Sample ID: 860-6594-4

Date Collected: 06/22/21 11:50 **Matrix: Solid**
Date Received: 06/24/21 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000208	U	0.00101	0.000208	mg/Kg		07/03/21 14:22	07/03/21 16:42	1
Toluene	0.00101	U	0.00503	0.00101	mg/Kg		07/03/21 14:22	07/03/21 16:42	1
Ethylbenzene	0.000338	U	0.00101	0.000338	mg/Kg		07/03/21 14:22	07/03/21 16:42	1
m,p-Xylenes	0.000805	U	0.00201	0.000805	mg/Kg		07/03/21 14:22	07/03/21 16:42	1
o-Xylene	0.000991	U	0.00101	0.000991	mg/Kg		07/03/21 14:22	07/03/21 16:42	1
Xylenes, Total	0.000991	U	0.00201	0.000991	mg/Kg		07/03/21 14:22	07/03/21 16:42	1
Total BTEX	0.00101	U	0.00503	0.00101	mg/Kg		07/03/21 14:22	07/03/21 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*56 - 150*	*07/03/21 14:22*	*07/03/21 16:42*	*1*
4-Bromofluorobenzene (Surr)	*87*		*68 - 152*	*07/03/21 14:22*	*07/03/21 16:42*	*1*
Dibromofluoromethane (Surr)	*93*		*53 - 142*	*07/03/21 14:22*	*07/03/21 16:42*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*	*07/03/21 14:22*	*07/03/21 16:42*	*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	21.0	U	49.7	21.0	mg/Kg		07/01/21 09:03	07/01/21 20:47	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.7	21.0	mg/Kg		07/01/21 09:03	07/01/21 20:47	1
OII Range Organics (Over C28-C36)	21.0	U	49.7	21.0	mg/Kg		07/01/21 09:03	07/01/21 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*65 - 130*	*07/01/21 09:03*	*07/01/21 20:47*	*1*
o-Terphenyl	*102*		*65 - 130*	*07/01/21 09:03*	*07/01/21 20:47*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.93**	**J**	9.98	3.53	mg/Kg		07/02/21 07:04	07/02/21 09:49	1

Client Sample ID: Cell26-Square-198-S-3-4-210622 Lab Sample ID: 860-6594-5

Date Collected: 06/22/21 12:20 **Matrix: Solid**
Date Received: 06/24/21 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000205	U	0.000992	0.000205	mg/Kg		07/03/21 14:22	07/03/21 17:02	1
Toluene	**0.00133**	**J**	0.00496	0.000992	mg/Kg		07/03/21 14:22	07/03/21 17:02	1
Ethylbenzene	0.000333	U	0.000992	0.000333	mg/Kg		07/03/21 14:22	07/03/21 17:02	1
m,p-Xylenes	**0.00108**	**J**	0.00198	0.000794	mg/Kg		07/03/21 14:22	07/03/21 17:02	1
o-Xylene	0.000977	U	0.000992	0.000977	mg/Kg		07/03/21 14:22	07/03/21 17:02	1
Xylenes, Total	**0.00108**	**J**	0.00198	0.000977	mg/Kg		07/03/21 14:22	07/03/21 17:02	1
Total BTEX	**0.00241**	**J**	0.00496	0.000992	mg/Kg		07/03/21 14:22	07/03/21 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*56 - 150*	*07/03/21 14:22*	*07/03/21 17:02*	*1*
4-Bromofluorobenzene (Surr)	*88*		*68 - 152*	*07/03/21 14:22*	*07/03/21 17:02*	*1*
Dibromofluoromethane (Surr)	*90*		*53 - 142*	*07/03/21 14:22*	*07/03/21 17:02*	*1*
Toluene-d8 (Surr)	*89*		*70 - 130*	*07/03/21 14:22*	*07/03/21 17:02*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square-198-S-3-4-210622 Lab Sample ID: 860-6594-5

Date Collected: 06/22/21 12:20 **Matrix: Solid**
Date Received: 06/24/21 11:46

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		07/01/21 09:03	07/01/21 21:05	1
Diesel Range Organics (Over C10-C28)	21.2	U	50.2	21.2	mg/Kg		07/01/21 09:03	07/01/21 21:05	1
Oil Range Organics (Over C28-C36)	21.2	U	50.2	21.2	mg/Kg		07/01/21 09:03	07/01/21 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*65 - 130*	*07/01/21 09:03*	*07/01/21 21:05*	*1*
o-Terphenyl	*104*		*65 - 130*	*07/01/21 09:03*	*07/01/21 21:05*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.96**	**J**	10.1	3.59	mg/Kg		07/02/21 07:04	07/02/21 09:59	1

Client Sample ID: Cell26-Square 75-S-3-4-210622 Lab Sample ID: 860-6594-6

Date Collected: 06/22/21 12:50 **Matrix: Solid**
Date Received: 06/24/21 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00251**		0.00100	0.000207	mg/Kg		06/29/21 20:06	07/02/21 17:18	1
Toluene	**0.00883**		0.00500	0.00100	mg/Kg		06/29/21 20:06	07/02/21 17:18	1
Ethylbenzene	**0.00188**		0.00100	0.000336	mg/Kg		06/29/21 20:06	07/02/21 17:18	1
m,p-Xylenes	**0.00807**		0.00200	0.000800	mg/Kg		06/29/21 20:06	07/02/21 17:18	1
o-Xylene	**0.00284**		0.00100	0.000985	mg/Kg		06/29/21 20:06	07/02/21 17:18	1
Xylenes, Total	**0.0109**		0.00200	0.000985	mg/Kg		06/29/21 20:06	07/02/21 17:18	1
Total BTEX	**0.0241**		0.00500	0.00100	mg/Kg		06/29/21 20:06	07/02/21 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*56 - 150*	*06/29/21 20:06*	*07/02/21 17:18*	*1*
4-Bromofluorobenzene (Surr)	*109*		*68 - 152*	*06/29/21 20:06*	*07/02/21 17:18*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*06/29/21 20:06*	*07/02/21 17:18*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*06/29/21 20:06*	*07/02/21 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	21.3	U	50.5	21.3	mg/Kg		07/01/21 09:03	07/01/21 21:43	1
Diesel Range Organics (Over C10-C28)	21.3	U	50.5	21.3	mg/Kg		07/01/21 09:03	07/01/21 21:43	1
Oil Range Organics (Over C28-C36)	21.3	U	50.5	21.3	mg/Kg		07/01/21 09:03	07/01/21 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*65 - 130*	*07/01/21 09:03*	*07/01/21 21:43*	*1*
o-Terphenyl	*103*		*65 - 130*	*07/01/21 09:03*	*07/01/21 21:43*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.52**	**J**	10.1	3.58	mg/Kg		07/02/21 07:04	07/02/21 10:10	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square 14-S-3-4-210622 Lab Sample ID: 860-6594-7

Date Collected: 06/22/21 13:10 **Matrix: Solid**
Date Received: 06/24/21 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00181		0.000998	0.000207	mg/Kg		06/29/21 20:06	07/02/21 17:39	1
Toluene	0.00585		0.00499	0.000998	mg/Kg		06/29/21 20:06	07/02/21 17:39	1
Ethylbenzene	0.00132		0.000998	0.000335	mg/Kg		06/29/21 20:06	07/02/21 17:39	1
m,p-Xylenes	0.00576		0.00200	0.000798	mg/Kg		06/29/21 20:06	07/02/21 17:39	1
o-Xylene	0.00218		0.000998	0.000983	mg/Kg		06/29/21 20:06	07/02/21 17:39	1
Xylenes, Total	0.00794		0.00200	0.000983	mg/Kg		06/29/21 20:06	07/02/21 17:39	1
Total BTEX	0.0169		0.00499	0.000998	mg/Kg		06/29/21 20:06	07/02/21 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*56 - 150*	*06/29/21 20:06*	*07/02/21 17:39*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*06/29/21 20:06*	*07/02/21 17:39*	*1*
Dibromofluoromethane (Surr)	*94*		*53 - 142*	*06/29/21 20:06*	*07/02/21 17:39*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*06/29/21 20:06*	*07/02/21 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	21.1	U	50.0	21.1	mg/Kg		07/01/21 09:03	07/01/21 22:01	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		07/01/21 09:03	07/01/21 22:01	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		07/01/21 09:03	07/01/21 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*65 - 130*	*07/01/21 09:03*	*07/01/21 22:01*	*1*
o-Terphenyl	*103*		*65 - 130*	*07/01/21 09:03*	*07/01/21 22:01*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		10.0	3.55	mg/Kg		07/02/21 07:04	07/02/21 10:20	1

Client Sample ID: Cell26-Square 67-S-3-4-210622 Lab Sample ID: 860-6594-8

Date Collected: 06/22/21 13:30 **Matrix: Solid**
Date Received: 06/24/21 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00267		0.00100	0.000207	mg/Kg		06/29/21 20:06	07/02/21 17:59	1
Toluene	0.00890		0.00500	0.00100	mg/Kg		06/29/21 20:06	07/02/21 17:59	1
Ethylbenzene	0.00163		0.00100	0.000336	mg/Kg		06/29/21 20:06	07/02/21 17:59	1
m,p-Xylenes	0.00687		0.00200	0.000800	mg/Kg		06/29/21 20:06	07/02/21 17:59	1
o-Xylene	0.00235		0.00100	0.000985	mg/Kg		06/29/21 20:06	07/02/21 17:59	1
Xylenes, Total	0.00922		0.00200	0.000985	mg/Kg		06/29/21 20:06	07/02/21 17:59	1
Total BTEX	0.0224		0.00500	0.00100	mg/Kg		06/29/21 20:06	07/02/21 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*56 - 150*	*06/29/21 20:06*	*07/02/21 17:59*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*06/29/21 20:06*	*07/02/21 17:59*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*06/29/21 20:06*	*07/02/21 17:59*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*06/29/21 20:06*	*07/02/21 17:59*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square 67-S-3-4-210622 Lab Sample ID: 860-6594-8

Date Collected: 06/22/21 13:30 **Matrix: Solid**
Date Received: 06/24/21 11:46

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		07/01/21 09:03	07/01/21 22:20	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		07/01/21 09:03	07/01/21 22:20	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		07/01/21 09:03	07/01/21 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*65 - 130*	*07/01/21 09:03*	*07/01/21 22:20*	*1*
o-Terphenyl	*102*		*65 - 130*	*07/01/21 09:03*	*07/01/21 22:20*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.68**	**J**	9.94	3.52	mg/Kg		07/02/21 07:04	07/02/21 10:31	1

Client Sample ID: Cell26-Square 180-S-3-4-210622 Lab Sample ID: 860-6594-9

Date Collected: 06/22/21 13:55 **Matrix: Solid**
Date Received: 06/24/21 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00199**		0.000998	0.000207	mg/Kg		06/29/21 20:06	07/02/21 18:20	1
Toluene	**0.00603**		0.00499	0.000998	mg/Kg		06/29/21 20:06	07/02/21 18:20	1
Ethylbenzene	**0.00133**		0.000998	0.000335	mg/Kg		06/29/21 20:06	07/02/21 18:20	1
m,p-Xylenes	**0.00580**		0.00200	0.000798	mg/Kg		06/29/21 20:06	07/02/21 18:20	1
o-Xylene	**0.00210**		0.000998	0.000983	mg/Kg		06/29/21 20:06	07/02/21 18:20	1
Xylenes, Total	**0.00790**		0.00200	0.000983	mg/Kg		06/29/21 20:06	07/02/21 18:20	1
Total BTEX	**0.0173**		0.00499	0.000998	mg/Kg		06/29/21 20:06	07/02/21 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*56 - 150*	*06/29/21 20:06*	*07/02/21 18:20*	*1*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*	*06/29/21 20:06*	*07/02/21 18:20*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*06/29/21 20:06*	*07/02/21 18:20*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*06/29/21 20:06*	*07/02/21 18:20*	*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	21.0	U	49.7	21.0	mg/Kg		07/01/21 09:03	07/01/21 22:38	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.7	21.0	mg/Kg		07/01/21 09:03	07/01/21 22:38	1
Oil Range Organics (Over C28-C36)	21.0	U	49.7	21.0	mg/Kg		07/01/21 09:03	07/01/21 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*65 - 130*	*07/01/21 09:03*	*07/01/21 22:38*	*1*
o-Terphenyl	*105*		*65 - 130*	*07/01/21 09:03*	*07/01/21 22:38*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.81**	**J**	9.92	3.51	mg/Kg		07/02/21 07:04	07/02/21 10:41	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square 83-S-3-4-210622 Lab Sample ID: 860-6594-10

Date Collected: 06/22/21 14:25 **Matrix: Solid**
Date Received: 06/24/21 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00184**		0.000992	0.000205	mg/Kg		06/29/21 20:06	07/02/21 18:40	1
Toluene	**0.00523**		0.00496	0.000992	mg/Kg		06/29/21 20:06	07/02/21 18:40	1
Ethylbenzene	**0.00118**		0.000992	0.000333	mg/Kg		06/29/21 20:06	07/02/21 18:40	1
m,p-Xylenes	**0.00499**		0.00198	0.000794	mg/Kg		06/29/21 20:06	07/02/21 18:40	1
o-Xylene	**0.00184**		0.000992	0.000977	mg/Kg		06/29/21 20:06	07/02/21 18:40	1
Xylenes, Total	**0.00683**		0.00198	0.000977	mg/Kg		06/29/21 20:06	07/02/21 18:40	1
Total BTEX	**0.0151**		0.00496	0.000992	mg/Kg		06/29/21 20:06	07/02/21 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*56 - 150*	*06/29/21 20:06*	*07/02/21 18:40*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*06/29/21 20:06*	*07/02/21 18:40*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*	*06/29/21 20:06*	*07/02/21 18:40*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*06/29/21 20:06*	*07/02/21 18:40*	*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	49.6	20.9	mg/Kg		07/01/21 09:03	07/01/21 22:57	1
Diesel Range Organics (Over C10-C28)	20.9	U	49.6	20.9	mg/Kg		07/01/21 09:03	07/01/21 22:57	1
OII Range Organics (Over C28-C36)	20.9	U	49.6	20.9	mg/Kg		07/01/21 09:03	07/01/21 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*65 - 130*	*07/01/21 09:03*	*07/01/21 22:57*	*1*
o-Terphenyl	*103*		*65 - 130*	*07/01/21 09:03*	*07/01/21 22:57*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.21**	**J**	10.1	3.57	mg/Kg		07/02/21 07:04	07/02/21 10:52	1

Client Sample ID: Cell26-Square 35-S-3-4-210622 Lab Sample ID: 860-6594-11

Date Collected: 06/22/21 14:50 **Matrix: Solid**
Date Received: 06/24/21 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000206	U	0.000994	0.000206	mg/Kg		07/03/21 14:22	07/03/21 17:04	1
Toluene	**0.00129**	**J**	0.00497	0.000994	mg/Kg		07/03/21 14:22	07/03/21 17:04	1
Ethylbenzene	0.000334	U	0.000994	0.000334	mg/Kg		07/03/21 14:22	07/03/21 17:04	1
m,p-Xylenes	**0.00131**	**J**	0.00199	0.000795	mg/Kg		07/03/21 14:22	07/03/21 17:04	1
o-Xylene	0.000979	U	0.000994	0.000979	mg/Kg		07/03/21 14:22	07/03/21 17:04	1
Xylenes, Total	**0.00131**	**J**	0.00199	0.000979	mg/Kg		07/03/21 14:22	07/03/21 17:04	1
Total BTEX	**0.00260**	**J**	0.00497	0.000994	mg/Kg		07/03/21 14:22	07/03/21 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*56 - 150*	*07/03/21 14:22*	*07/03/21 17:04*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 152*	*07/03/21 14:22*	*07/03/21 17:04*	*1*
Dibromofluoromethane (Surr)	*97*		*53 - 142*	*07/03/21 14:22*	*07/03/21 17:04*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*07/03/21 14:22*	*07/03/21 17:04*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square 35-S-3-4-210622 Lab Sample ID: 860-6594-11

Date Collected: 06/22/21 14:50 **Matrix: Solid**
Date Received: 06/24/21 11:46

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	50.3	21.2	mg/Kg		07/01/21 09:03	07/01/21 23:15	1
Diesel Range Organics (Over C10-C28)	21.2	U	50.3	21.2	mg/Kg		07/01/21 09:03	07/01/21 23:15	1
Oil Range Organics (Over C28-C36)	21.2	U	50.3	21.2	mg/Kg		07/01/21 09:03	07/01/21 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*65 - 130*	*07/01/21 09:03*	*07/01/21 23:15*	*1*
o-Terphenyl	*105*		*65 - 130*	*07/01/21 09:03*	*07/01/21 23:15*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.71**	**J**	9.96	3.53	mg/Kg		07/02/21 07:04	07/02/21 11:02	1

Client Sample ID: Cell26-Square 65-S-3-4-210622 Lab Sample ID: 860-6594-12

Date Collected: 06/22/21 16:00 **Matrix: Solid**
Date Received: 06/24/21 11:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000639**	**J**	0.000996	0.000206	mg/Kg		07/06/21 12:11	07/06/21 14:15	1
Toluene	**0.00134**	**J**	0.00498	0.000996	mg/Kg		07/06/21 12:11	07/06/21 14:15	1
Ethylbenzene	0.000334	U	0.000996	0.000334	mg/Kg		07/06/21 12:11	07/06/21 14:15	1
m,p-Xylenes	**0.00138**	**J**	0.00199	0.000797	mg/Kg		07/06/21 12:11	07/06/21 14:15	1
o-Xylene	0.000981	U	0.000996	0.000981	mg/Kg		07/06/21 12:11	07/06/21 14:15	1
Xylenes, Total	**0.00138**	**J**	0.00199	0.000981	mg/Kg		07/06/21 12:11	07/06/21 14:15	1
Total BTEX	**0.00336**	**J**	0.00498	0.000996	mg/Kg		07/06/21 12:11	07/06/21 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*56 - 150*	*07/06/21 12:11*	*07/06/21 13:55*	*25*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*	*07/06/21 12:11*	*07/06/21 14:15*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*07/06/21 12:11*	*07/06/21 13:55*	*25*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*07/06/21 12:11*	*07/06/21 14:15*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*	*07/06/21 12:11*	*07/06/21 13:55*	*25*
Dibromofluoromethane (Surr)	*107*		*53 - 142*	*07/06/21 12:11*	*07/06/21 14:15*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*07/06/21 12:11*	*07/06/21 13:55*	*25*
Toluene-d8 (Surr)	*98*		*70 - 130*	*07/06/21 12:11*	*07/06/21 14:15*	*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		07/01/21 09:03	07/01/21 23:34	1
Diesel Range Organics (Over C10-C28)	21.2	U	50.2	21.2	mg/Kg		07/01/21 09:03	07/01/21 23:34	1
Oil Range Organics (Over C28-C36)	21.2	U	50.2	21.2	mg/Kg		07/01/21 09:03	07/01/21 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*65 - 130*	*07/01/21 09:03*	*07/01/21 23:34*	*1*
o-Terphenyl	*105*		*65 - 130*	*07/01/21 09:03*	*07/01/21 23:34*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square 65-S-3-4-210622 **Lab Sample ID: 860-6594-12**
Date Collected: 06/22/21 16:00 **Matrix: Solid**
Date Received: 06/24/21 11:46

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.16	J	10.1	3.56	mg/Kg		07/02/21 07:04	07/02/21 11:12	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
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)
860-6594-1	Cell26-Square 49-S-3-4-210622	101	99	94	101
860-6594-1 MS	Cell26-Square 49-S-3-4-210622	97	103	100	102
860-6594-2	Cell26-Square 32-S-3-4-210622	97	98	101	102
860-6594-2 MS	Cell26-Square 32-S-3-4-210622	95	100	105	104
860-6594-3	Cell26-Square-134-S-3-4-210622	109	88	91	88
860-6594-4	Cell26-Square 206-S-3-4-210622	109	87	93	87
860-6594-5	Cell26-Square-198-S-3-4-210622	109	88	90	89
860-6594-6	Cell26-Square 75-S-3-4-210622	91	109	98	101
860-6594-7	Cell26-Square 14-S-3-4-210622	86	102	94	102
860-6594-8	Cell26-Square 67-S-3-4-210622	87	102	96	101
860-6594-9	Cell26-Square 180-S-3-4-210622	90	103	98	99
860-6594-10	Cell26-Square 83-S-3-4-210622	92	102	99	99
860-6594-11	Cell26-Square 35-S-3-4-210622	91	94	97	102
860-6594-11 MS	Cell26-Square 35-S-3-4-210622	86	101	100	106
860-6594-12	Cell26-Square 65-S-3-4-210622	101	102	107	98
860-6594-12	Cell26-Square 65-S-3-4-210622	91	102	99	101
860-6594-12 MS	Cell26-Square 65-S-3-4-210622	89	104	99	102
LCS 860-13309/3	Lab Control Sample	99	99	96	105
LCS 860-13310/3	Lab Control Sample	97	96	106	93
LCS 860-13648/3	Lab Control Sample	90	102	95	101
LCS 860-13805/3	Lab Control Sample	85	97	94	107
LCS 860-13806/3	Lab Control Sample	103	88	98	96
LCS 860-13881/3	Lab Control Sample	92	104	97	100
LCSD 860-13309/4	Lab Control Sample Dup	103	98	97	100
LCSD 860-13310/4	Lab Control Sample Dup	89	99	103	100
LCSD 860-13648/4	Lab Control Sample Dup	86	102	95	101
LCSD 860-13805/4	Lab Control Sample Dup	85	98	95	106
LCSD 860-13806/4	Lab Control Sample Dup	107	90	97	98
LCSD 860-13881/4	Lab Control Sample Dup	95	101	101	101
MB 860-13309/18	Method Blank	99	98	89	99
MB 860-13310/7	Method Blank	91	101	96	103
MB 860-13648/8	Method Blank	86	104	95	99
MB 860-13805/7	Method Blank	77	95	88	106
MB 860-13806/7	Method Blank	108	89	92	87
MB 860-13881/8	Method Blank	96	101	100	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

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)								
860-6594-1	Cell26-Square 49-S-3-4-210622	87	102								
860-6594-1 MS	Cell26-Square 49-S-3-4-210622	101	94								
860-6594-1 MSD	Cell26-Square 49-S-3-4-210622	103	94								
860-6594-2	Cell26-Square 32-S-3-4-210622	90	107								
860-6594-3	Cell26-Square-134-S-3-4-210622	88	104								
860-6594-4	Cell26-Square 206-S-3-4-210622	87	102								
860-6594-5	Cell26-Square-198-S-3-4-210622	88	104								
860-6594-6	Cell26-Square 75-S-3-4-210622	88	103								
860-6594-7	Cell26-Square 14-S-3-4-210622	88	103								
860-6594-8	Cell26-Square 67-S-3-4-210622	87	102								
860-6594-9	Cell26-Square 180-S-3-4-210622	89	105								
860-6594-10	Cell26-Square 83-S-3-4-210622	88	103								
860-6594-11	Cell26-Square 35-S-3-4-210622	89	105								
860-6594-12	Cell26-Square 65-S-3-4-210622	89	105								
LCS 860-13463/2-A	Lab Control Sample	97	87								
LCSD 860-13463/3-A	Lab Control Sample Dup	100	91								
MB 860-13463/1-A	Method Blank	84	98								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: 860-6594-1 MS **Client Sample ID: Cell26-Square 49-S-3-4-210622**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13309 **Prep Batch: 13232**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.000944	J	0.0499	0.05087		mg/Kg		100	71 - 119
Toluene	0.00101	U	0.0499	0.04359		mg/Kg		87	74 - 122
Ethylbenzene	0.000338	U	0.0499	0.04962		mg/Kg		99	80 - 123
m,p-Xylenes	0.000806	U	0.0998	0.09478		mg/Kg		95	78 - 127
o-Xylene	0.000993	U	0.0499	0.04793		mg/Kg		96	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*
Dibromofluoromethane (Surr)	*100*		*53 - 142*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: 860-6594-2 MS **Client Sample ID: Cell26-Square 32-S-3-4-210622**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13310 **Prep Batch: 13232**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.000726	J	0.0496	0.05087		mg/Kg		101	71 - 119
Toluene	0.00277	J	0.0496	0.04494		mg/Kg		85	74 - 122
Ethylbenzene	0.000333	U	0.0496	0.04981		mg/Kg		100	80 - 123
m,p-Xylenes	0.000794	U	0.0992	0.1071		mg/Kg		108	78 - 127
o-Xylene	0.000977	U	0.0496	0.04552		mg/Kg		92	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*
Dibromofluoromethane (Surr)	*105*		*53 - 142*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 860-13309/18 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13309

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			06/30/21 16:29	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			06/30/21 16:29	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			06/30/21 16:29	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			06/30/21 16:29	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			06/30/21 16:29	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			06/30/21 16:29	1
Total BTEX	0.00100	U	0.00500	0.00100	mg/Kg			06/30/21 16:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*		*06/30/21 16:29*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*		*06/30/21 16:29*	*1*
Dibromofluoromethane (Surr)	*89*		*53 - 142*		*06/30/21 16:29*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*06/30/21 16:29*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 860-13309/3
Matrix: Solid
Analysis Batch: 13309

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.04803		mg/Kg		96	66 - 142		
Toluene			0.0500	0.04214		mg/Kg		84	74 - 130		
Ethylbenzene			0.0500	0.04794		mg/Kg		96	80 - 130		
m,p-Xylenes			0.100	0.09323		mg/Kg		93	78 - 130		
o-Xylene			0.0500	0.04762		mg/Kg		95	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*
Dibromofluoromethane (Surr)	*96*		*53 - 142*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 860-13309/4
Matrix: Solid
Analysis Batch: 13309

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0500	0.04868		mg/Kg		97	66 - 142	1	25
Toluene			0.0500	0.04104		mg/Kg		82	74 - 130	3	25
Ethylbenzene			0.0500	0.04699		mg/Kg		94	80 - 130	2	25
m,p-Xylenes			0.100	0.09130		mg/Kg		91	78 - 130	2	25
o-Xylene			0.0500	0.04698		mg/Kg		94	79 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
Dibromofluoromethane (Surr)	*97*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 860-13310/7
Matrix: Solid
Analysis Batch: 13310

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			06/30/21 15:18	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			06/30/21 15:18	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			06/30/21 15:18	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			06/30/21 15:18	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			06/30/21 15:18	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			06/30/21 15:18	1
Total BTEX	0.00100	U	0.00500	0.00100	mg/Kg			06/30/21 15:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*56 - 150*		*06/30/21 15:18*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*		*06/30/21 15:18*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*		*06/30/21 15:18*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*06/30/21 15:18*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 860-13310/3
Matrix: Solid
Analysis Batch: 13310

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.05290		mg/Kg		106	66 - 142		
Toluene			0.0500	0.04356		mg/Kg		87	74 - 130		
Ethylbenzene			0.0500	0.05187		mg/Kg		104	80 - 130		
m,p-Xylenes			0.100	0.1102		mg/Kg		110	78 - 130		
o-Xylene			0.0500	0.04663		mg/Kg		93	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*
Dibromofluoromethane (Surr)	*106*		*53 - 142*
Toluene-d8 (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 860-13310/4
Matrix: Solid
Analysis Batch: 13310

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0500	0.05237		mg/Kg		105	66 - 142	1	25
Toluene			0.0500	0.04506		mg/Kg		90	74 - 130	3	25
Ethylbenzene			0.0500	0.05041		mg/Kg		101	80 - 130	3	25
m,p-Xylenes			0.100	0.1078		mg/Kg		108	78 - 130	2	25
o-Xylene			0.0500	0.04597		mg/Kg		92	79 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*56 - 150*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*
Dibromofluoromethane (Surr)	*103*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 860-13648/8
Matrix: Solid
Analysis Batch: 13648

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			07/02/21 11:51	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			07/02/21 11:51	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			07/02/21 11:51	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			07/02/21 11:51	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			07/02/21 11:51	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			07/02/21 11:51	1
Total BTEX	0.00100	U	0.00500	0.00100	mg/Kg			07/02/21 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*56 - 150*		*07/02/21 11:51*	*1*
4-Bromofluorobenzene (Surr)	*104*		*68 - 152*		*07/02/21 11:51*	*1*
Dibromofluoromethane (Surr)	*95*		*53 - 142*		*07/02/21 11:51*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/02/21 11:51*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 860-13648/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13648

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.04449		mg/Kg		89	66 - 142		
Toluene			0.0500	0.04267		mg/Kg		85	74 - 130		
Ethylbenzene			0.0500	0.05012		mg/Kg		100	80 - 130		
m,p-Xylenes			0.100	0.09715		mg/Kg		97	78 - 130		
o-Xylene			0.0500	0.04955		mg/Kg		99	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*56 - 150*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*
Dibromofluoromethane (Surr)	*95*		*53 - 142*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 860-13648/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13648

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0500	0.04413		mg/Kg		88	66 - 142	1	25
Toluene			0.0500	0.04156		mg/Kg		83	74 - 130	3	25
Ethylbenzene			0.0500	0.04858		mg/Kg		97	80 - 130	3	25
m,p-Xylenes			0.100	0.09509		mg/Kg		95	78 - 130	2	25
o-Xylene			0.0500	0.04877		mg/Kg		98	79 - 130	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*56 - 150*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*
Dibromofluoromethane (Surr)	*95*		*53 - 142*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 860-13805/7 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			07/03/21 16:42	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			07/03/21 16:42	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			07/03/21 16:42	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			07/03/21 16:42	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			07/03/21 16:42	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			07/03/21 16:42	1
Total BTEX	0.00100	U	0.00500	0.00100	mg/Kg			07/03/21 16:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*77*		*56 - 150*		*07/03/21 16:42*	*1*
4-Bromofluorobenzene (Surr)	*95*		*68 - 152*		*07/03/21 16:42*	*1*
Dibromofluoromethane (Surr)	*88*		*53 - 142*		*07/03/21 16:42*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*07/03/21 16:42*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 860-13805/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13805

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.04778		mg/Kg		96	66 - 142		
Toluene			0.0500	0.05009		mg/Kg		100	74 - 130		
Ethylbenzene			0.0500	0.05183		mg/Kg		104	80 - 130		
m,p-Xylenes			0.100	0.1024		mg/Kg		102	78 - 130		
o-Xylene			0.0500	0.05210		mg/Kg		104	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*56 - 150*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*
Dibromofluoromethane (Surr)	*94*		*53 - 142*
Toluene-d8 (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 860-13805/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13805

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0500	0.04931		mg/Kg		99	66 - 142	3	25
Toluene			0.0500	0.05077		mg/Kg		102	74 - 130	1	25
Ethylbenzene			0.0500	0.05268		mg/Kg		105	80 - 130	2	25
m,p-Xylenes			0.100	0.1038		mg/Kg		104	78 - 130	1	25
o-Xylene			0.0500	0.05281		mg/Kg		106	79 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*56 - 150*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
Dibromofluoromethane (Surr)	*95*		*53 - 142*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 860-13806/7 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			07/03/21 13:50	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			07/03/21 13:50	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			07/03/21 13:50	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			07/03/21 13:50	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			07/03/21 13:50	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			07/03/21 13:50	1
Total BTEX	0.00100	U	0.00500	0.00100	mg/Kg			07/03/21 13:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*56 - 150*		*07/03/21 13:50*	*1*
4-Bromofluorobenzene (Surr)	*89*		*68 - 152*		*07/03/21 13:50*	*1*
Dibromofluoromethane (Surr)	*92*		*53 - 142*		*07/03/21 13:50*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*		*07/03/21 13:50*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 860-13806/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13806

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.04556		mg/Kg		91	66 - 142		
Toluene			0.0500	0.03928		mg/Kg		79	74 - 130		
Ethylbenzene			0.0500	0.04707		mg/Kg		94	80 - 130		
m,p-Xylenes			0.100	0.08904		mg/Kg		89	78 - 130		
o-Xylene			0.0500	0.04697		mg/Kg		94	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*
4-Bromofluorobenzene (Surr)	*88*		*68 - 152*
Dibromofluoromethane (Surr)	*98*		*53 - 142*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 860-13806/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13806

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0500	0.04912		mg/Kg		98	66 - 142	8	25
Toluene			0.0500	0.04270		mg/Kg		85	74 - 130	8	25
Ethylbenzene			0.0500	0.05093		mg/Kg		102	80 - 130	8	25
m,p-Xylenes			0.100	0.09615		mg/Kg		96	78 - 130	8	25
o-Xylene			0.0500	0.05158		mg/Kg		103	79 - 130	9	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*56 - 150*
4-Bromofluorobenzene (Surr)	*90*		*68 - 152*
Dibromofluoromethane (Surr)	*97*		*53 - 142*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: 860-6594-11 MS **Client Sample ID: Cell26-Square 35-S-3-4-210622**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13805 **Prep Batch: 13816**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	0.000206	U	0.0503	0.04873		mg/Kg		97	71 - 119		
Toluene	0.00129	J	0.0503	0.04996		mg/Kg		97	74 - 122		
Ethylbenzene	0.000334	U	0.0503	0.05145		mg/Kg		102	80 - 123		
m,p-Xylenes	0.00131	J	0.101	0.1025		mg/Kg		101	78 - 127		
o-Xylene	0.000979	U	0.0503	0.05129		mg/Kg		102	79 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*56 - 150*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*
Dibromofluoromethane (Surr)	*100*		*53 - 142*
Toluene-d8 (Surr)	*106*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-13881/8 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			07/06/21 13:34	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			07/06/21 13:34	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			07/06/21 13:34	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			07/06/21 13:34	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			07/06/21 13:34	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			07/06/21 13:34	1
Total BTEX	0.00100	U	0.00500	0.00100	mg/Kg			07/06/21 13:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*56 - 150*		*07/06/21 13:34*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*		*07/06/21 13:34*	*1*
Dibromofluoromethane (Surr)	*100*		*53 - 142*		*07/06/21 13:34*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*07/06/21 13:34*	*1*

Lab Sample ID: LCS 860-13881/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13881

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0500	0.04976		mg/Kg		100	66 - 142		
Toluene			0.0500	0.04553		mg/Kg		91	74 - 130		
Ethylbenzene			0.0500	0.05040		mg/Kg		101	80 - 130		
m,p-Xylenes			0.100	0.09954		mg/Kg		100	78 - 130		
o-Xylene			0.0500	0.04876		mg/Kg		98	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*56 - 150*
4-Bromofluorobenzene (Surr)	*104*		*68 - 152*
Dibromofluoromethane (Surr)	*97*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 860-13881/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13881

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0500	0.05691		mg/Kg		114	66 - 142	13	25
Toluene			0.0500	0.05118		mg/Kg		102	74 - 130	12	25
Ethylbenzene			0.0500	0.05662		mg/Kg		113	80 - 130	12	25
m,p-Xylenes			0.100	0.1137		mg/Kg		114	78 - 130	13	25
o-Xylene			0.0500	0.05593		mg/Kg		112	79 - 130	14	25

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

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: 860-6594-12 MS **Client Sample ID: Cell26-Square 65-S-3-4-210622**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13881 **Prep Batch: 13925**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0110	J	1.26	1.282		mg/Kg		101	71 - 119
Toluene	0.0251	U	1.26	1.195		mg/Kg		95	74 - 122
Ethylbenzene	0.00843	U	1.26	1.313		mg/Kg		105	80 - 123
m,p-Xylenes	0.0201	U	2.51	2.603		mg/Kg		104	78 - 127
o-Xylene	0.0247	U	1.26	1.282		mg/Kg		102	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*56 - 150*
4-Bromofluorobenzene (Surr)	*104*		*68 - 152*
Dibromofluoromethane (Surr)	*99*		*53 - 142*
Toluene-d8 (Surr)	*102*		*70 - 130*

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

Lab Sample ID: MB 860-13463/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13587 **Prep Batch: 13463**

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		07/01/21 09:03	07/01/21 18:17	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		07/01/21 09:03	07/01/21 18:17	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		07/01/21 09:03	07/01/21 18:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*65 - 130*	*07/01/21 09:03*	*07/01/21 18:17*	*1*
o-Terphenyl	*98*		*65 - 130*	*07/01/21 09:03*	*07/01/21 18:17*	*1*

Lab Sample ID: LCS 860-13463/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13587 **Prep Batch: 13463**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	966.4		mg/Kg		97	70 - 135
Diesel Range Organics (Over C10-C28)	1000	831.1		mg/Kg		83	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*97*		*65 - 130*
o-Terphenyl	*87*		*65 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 860-13463/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13587 **Prep Batch: 13463**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	971.9		mg/Kg		97	70 - 135	1	35
Diesel Range Organics (Over C10-C28)			1000	840.8		mg/Kg		84	70 - 135	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*65 - 130*
o-Terphenyl	*91*		*65 - 130*

Lab Sample ID: 860-6594-1 MS **Client Sample ID: Cell26-Square 49-S-3-4-210622**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13587 **Prep Batch: 13463**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	21.2	U	997	804.2		mg/Kg		81	70 - 135
Diesel Range Organics (Over C10-C28)	21.2	U	997	732.6		mg/Kg		73	70 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*101*		*65 - 130*
o-Terphenyl	*94*		*65 - 130*

Lab Sample ID: 860-6594-1 MSD **Client Sample ID: Cell26-Square 49-S-3-4-210622**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13587 **Prep Batch: 13463**

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	21.2	U	1000	968.1		mg/Kg		97	70 - 135	18	35
Diesel Range Organics (Over C10-C28)	21.2	U	1000	916.1		mg/Kg		91	70 - 135	22	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*103*		*65 - 130*
o-Terphenyl	*94*		*65 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-13631/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 13629 **Prep Batch: 13631**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		07/02/21 07:04	07/02/21 07:44	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-13631/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 13629 — **Prep Batch: 13631**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			100	97.12		mg/Kg		97	80 - 120		

Lab Sample ID: LCSD 860-13631/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 13629 — **Prep Batch: 13631**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	97.96		mg/Kg		98	80 - 120	1	20

Lab Sample ID: 860-6594-1 MS — **Client Sample ID: Cell26-Square 49-S-3-4-210622**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 13629 — **Prep Batch: 13631**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	99.6		99.8	195.2		mg/Kg		96	80 - 120		

Lab Sample ID: 860-6594-1 MSD — **Client Sample ID: Cell26-Square 49-S-3-4-210622**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 13629 — **Prep Batch: 13631**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	99.6		100	196.1		mg/Kg		96	80 - 120	1	20

Lab Sample ID: 860-6594-2 MS — **Client Sample ID: Cell26-Square 32-S-3-4-210622**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 13629 — **Prep Batch: 13631**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	8.23	J	100	105.3		mg/Kg		97	80 - 120		

Lab Sample ID: 860-6594-2 MSD — **Client Sample ID: Cell26-Square 32-S-3-4-210622**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 13629 — **Prep Batch: 13631**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.23	J	100	105.0		mg/Kg		97	80 - 120	0	20

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 13232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6594-2	Cell26-Square 32-S-3-4-210622	Total/NA	Solid	5030C	
860-6594-6	Cell26-Square 75-S-3-4-210622	Total/NA	Solid	5030C	
860-6594-7	Cell26-Square 14-S-3-4-210622	Total/NA	Solid	5030C	
860-6594-8	Cell26-Square 67-S-3-4-210622	Total/NA	Solid	5030C	
860-6594-9	Cell26-Square 180-S-3-4-210622	Total/NA	Solid	5030C	
860-6594-10	Cell26-Square 83-S-3-4-210622	Total/NA	Solid	5030C	
860-6594-1 MS	Cell26-Square 49-S-3-4-210622	Total/NA	Solid	5030C	
860-6594-2 MS	Cell26-Square 32-S-3-4-210622	Total/NA	Solid	5030C	

Analysis Batch: 13309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6594-1	Cell26-Square 49-S-3-4-210622	Total/NA	Solid	8260C	13321
MB 860-13309/18	Method Blank	Total/NA	Solid	8260C	
LCS 860-13309/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-13309/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-6594-1 MS	Cell26-Square 49-S-3-4-210622	Total/NA	Solid	8260C	13232

Analysis Batch: 13310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6594-2	Cell26-Square 32-S-3-4-210622	Total/NA	Solid	8260C	13232
MB 860-13310/7	Method Blank	Total/NA	Solid	8260C	
LCS 860-13310/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-13310/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-6594-2 MS	Cell26-Square 32-S-3-4-210622	Total/NA	Solid	8260C	13232

Prep Batch: 13321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6594-1	Cell26-Square 49-S-3-4-210622	Total/NA	Solid	5030C	

Analysis Batch: 13648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6594-6	Cell26-Square 75-S-3-4-210622	Total/NA	Solid	8260C	13232
860-6594-7	Cell26-Square 14-S-3-4-210622	Total/NA	Solid	8260C	13232
860-6594-8	Cell26-Square 67-S-3-4-210622	Total/NA	Solid	8260C	13232
860-6594-9	Cell26-Square 180-S-3-4-210622	Total/NA	Solid	8260C	13232
860-6594-10	Cell26-Square 83-S-3-4-210622	Total/NA	Solid	8260C	13232
MB 860-13648/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-13648/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-13648/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 13805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6594-11	Cell26-Square 35-S-3-4-210622	Total/NA	Solid	8260C	13816
MB 860-13805/7	Method Blank	Total/NA	Solid	8260C	
LCS 860-13805/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-13805/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-6594-11 MS	Cell26-Square 35-S-3-4-210622	Total/NA	Solid	8260C	13816

Analysis Batch: 13806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6594-3	Cell26-Square-134-S-3-4-210622	Total/NA	Solid	8260C	13816

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA (Continued)

Analysis Batch: 13806 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6594-4	Cell26-Square 206-S-3-4-210622	Total/NA	Solid	8260C	13816
860-6594-5	Cell26-Square-198-S-3-4-210622	Total/NA	Solid	8260C	13816
MB 860-13806/7	Method Blank	Total/NA	Solid	8260C	
LCS 860-13806/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-13806/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 13816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6594-3	Cell26-Square-134-S-3-4-210622	Total/NA	Solid	5030C	
860-6594-4	Cell26-Square 206-S-3-4-210622	Total/NA	Solid	5030C	
860-6594-5	Cell26-Square-198-S-3-4-210622	Total/NA	Solid	5030C	
860-6594-11	Cell26-Square 35-S-3-4-210622	Total/NA	Solid	5030C	
860-6594-11 MS	Cell26-Square 35-S-3-4-210622	Total/NA	Solid	5030C	

Analysis Batch: 13881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6594-12	Cell26-Square 65-S-3-4-210622	Total/NA	Solid	8260C	13925
860-6594-12	Cell26-Square 65-S-3-4-210622	Total/NA	Solid	8260C	13925
MB 860-13881/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-13881/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-13881/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-6594-12 MS	Cell26-Square 65-S-3-4-210622	Total/NA	Solid	8260C	13925

Prep Batch: 13925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6594-12	Cell26-Square 65-S-3-4-210622	Total/NA	Solid	5030C	
860-6594-12	Cell26-Square 65-S-3-4-210622	Total/NA	Solid	5030C	
860-6594-12 MS	Cell26-Square 65-S-3-4-210622	Total/NA	Solid	5030C	

GC Semi VOA

Prep Batch: 13463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6594-1	Cell26-Square 49-S-3-4-210622	Total/NA	Solid	8015NM Prep	
860-6594-2	Cell26-Square 32-S-3-4-210622	Total/NA	Solid	8015NM Prep	
860-6594-3	Cell26-Square-134-S-3-4-210622	Total/NA	Solid	8015NM Prep	
860-6594-4	Cell26-Square 206-S-3-4-210622	Total/NA	Solid	8015NM Prep	
860-6594-5	Cell26-Square-198-S-3-4-210622	Total/NA	Solid	8015NM Prep	
860-6594-6	Cell26-Square 75-S-3-4-210622	Total/NA	Solid	8015NM Prep	
860-6594-7	Cell26-Square 14-S-3-4-210622	Total/NA	Solid	8015NM Prep	
860-6594-8	Cell26-Square 67-S-3-4-210622	Total/NA	Solid	8015NM Prep	
860-6594-9	Cell26-Square 180-S-3-4-210622	Total/NA	Solid	8015NM Prep	
860-6594-10	Cell26-Square 83-S-3-4-210622	Total/NA	Solid	8015NM Prep	
860-6594-11	Cell26-Square 35-S-3-4-210622	Total/NA	Solid	8015NM Prep	
860-6594-12	Cell26-Square 65-S-3-4-210622	Total/NA	Solid	8015NM Prep	
MB 860-13463/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-13463/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-13463/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
860-6594-1 MS	Cell26-Square 49-S-3-4-210622	Total/NA	Solid	8015NM Prep	
860-6594-1 MSD	Cell26-Square 49-S-3-4-210622	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Analysis Batch: 13587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6594-1	Cell26-Square 49-S-3-4-210622	Total/NA	Solid	8015B NM	13463
860-6594-2	Cell26-Square 32-S-3-4-210622	Total/NA	Solid	8015B NM	13463
860-6594-3	Cell26-Square-134-S-3-4-210622	Total/NA	Solid	8015B NM	13463
860-6594-4	Cell26-Square 206-S-3-4-210622	Total/NA	Solid	8015B NM	13463
860-6594-5	Cell26-Square-198-S-3-4-210622	Total/NA	Solid	8015B NM	13463
860-6594-6	Cell26-Square 75-S-3-4-210622	Total/NA	Solid	8015B NM	13463
860-6594-7	Cell26-Square 14-S-3-4-210622	Total/NA	Solid	8015B NM	13463
860-6594-8	Cell26-Square 67-S-3-4-210622	Total/NA	Solid	8015B NM	13463
860-6594-9	Cell26-Square 180-S-3-4-210622	Total/NA	Solid	8015B NM	13463
860-6594-10	Cell26-Square 83-S-3-4-210622	Total/NA	Solid	8015B NM	13463
860-6594-11	Cell26-Square 35-S-3-4-210622	Total/NA	Solid	8015B NM	13463
860-6594-12	Cell26-Square 65-S-3-4-210622	Total/NA	Solid	8015B NM	13463
MB 860-13463/1-A	Method Blank	Total/NA	Solid	8015B NM	13463
LCS 860-13463/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	13463
LCSD 860-13463/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	13463
860-6594-1 MS	Cell26-Square 49-S-3-4-210622	Total/NA	Solid	8015B NM	13463
860-6594-1 MSD	Cell26-Square 49-S-3-4-210622	Total/NA	Solid	8015B NM	13463

HPLC/IC

Analysis Batch: 13629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6594-1	Cell26-Square 49-S-3-4-210622	Total/NA	Solid	300.0	13631
860-6594-2	Cell26-Square 32-S-3-4-210622	Total/NA	Solid	300.0	13631
860-6594-3	Cell26-Square-134-S-3-4-210622	Total/NA	Solid	300.0	13631
860-6594-4	Cell26-Square 206-S-3-4-210622	Total/NA	Solid	300.0	13631
860-6594-5	Cell26-Square-198-S-3-4-210622	Total/NA	Solid	300.0	13631
860-6594-6	Cell26-Square 75-S-3-4-210622	Total/NA	Solid	300.0	13631
860-6594-7	Cell26-Square 14-S-3-4-210622	Total/NA	Solid	300.0	13631
860-6594-8	Cell26-Square 67-S-3-4-210622	Total/NA	Solid	300.0	13631
860-6594-9	Cell26-Square 180-S-3-4-210622	Total/NA	Solid	300.0	13631
860-6594-10	Cell26-Square 83-S-3-4-210622	Total/NA	Solid	300.0	13631
860-6594-11	Cell26-Square 35-S-3-4-210622	Total/NA	Solid	300.0	13631
860-6594-12	Cell26-Square 65-S-3-4-210622	Total/NA	Solid	300.0	13631
MB 860-13631/1-A	Method Blank	Total/NA	Solid	300.0	13631
LCS 860-13631/2-A	Lab Control Sample	Total/NA	Solid	300.0	13631
LCSD 860-13631/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	13631
860-6594-1 MS	Cell26-Square 49-S-3-4-210622	Total/NA	Solid	300.0	13631
860-6594-1 MSD	Cell26-Square 49-S-3-4-210622	Total/NA	Solid	300.0	13631
860-6594-2 MS	Cell26-Square 32-S-3-4-210622	Total/NA	Solid	300.0	13631
860-6594-2 MSD	Cell26-Square 32-S-3-4-210622	Total/NA	Solid	300.0	13631

Prep Batch: 13631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6594-1	Cell26-Square 49-S-3-4-210622	Total/NA	Solid	300_Prep	
860-6594-2	Cell26-Square 32-S-3-4-210622	Total/NA	Solid	300_Prep	
860-6594-3	Cell26-Square-134-S-3-4-210622	Total/NA	Solid	300_Prep	
860-6594-4	Cell26-Square 206-S-3-4-210622	Total/NA	Solid	300_Prep	
860-6594-5	Cell26-Square-198-S-3-4-210622	Total/NA	Solid	300_Prep	
860-6594-6	Cell26-Square 75-S-3-4-210622	Total/NA	Solid	300_Prep	
860-6594-7	Cell26-Square 14-S-3-4-210622	Total/NA	Solid	300_Prep	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Prep Batch: 13631 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-6594-8	Cell26-Square 67-S-3-4-210622	Total/NA	Solid	300_Prep	
860-6594-9	Cell26-Square 180-S-3-4-210622	Total/NA	Solid	300_Prep	
860-6594-10	Cell26-Square 83-S-3-4-210622	Total/NA	Solid	300_Prep	
860-6594-11	Cell26-Square 35-S-3-4-210622	Total/NA	Solid	300_Prep	
860-6594-12	Cell26-Square 65-S-3-4-210622	Total/NA	Solid	300_Prep	
MB 860-13631/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-13631/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-13631/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-6594-1 MS	Cell26-Square 49-S-3-4-210622	Total/NA	Solid	300_Prep	
860-6594-1 MSD	Cell26-Square 49-S-3-4-210622	Total/NA	Solid	300_Prep	
860-6594-2 MS	Cell26-Square 32-S-3-4-210622	Total/NA	Solid	300_Prep	
860-6594-2 MSD	Cell26-Square 32-S-3-4-210622	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square 49-S-3-4-210622 Lab Sample ID: 860-6594-1

Date Collected: 06/22/21 10:30 **Matrix: Solid**
Date Received: 06/24/21 11:46

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	13321	06/30/21 11:50	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	13309	06/30/21 17:41	KLV	XEN STF
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	13463	07/01/21 09:03	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			13587	07/01/21 19:13	IS	XEN STF
Total/NA	Prep	300_Prep			5.00 g	50 mL	13631	07/02/21 07:04	JM	XEN STF
Total/NA	Analysis	300.0		1			13629	07/02/21 08:15	WP	XEN STF

Client Sample ID: Cell26-Square 32-S-3-4-210622 Lab Sample ID: 860-6594-2

Date Collected: 06/22/21 11:10 **Matrix: Solid**
Date Received: 06/24/21 11:46

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	13232	06/29/21 20:06	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	13310	06/30/21 15:39	KLV	XEN STF
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	13463	07/01/21 09:03	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			13587	07/01/21 20:09	IS	XEN STF
Total/NA	Prep	300_Prep			5.00 g	50 mL	13631	07/02/21 07:04	JM	XEN STF
Total/NA	Analysis	300.0		1			13629	07/02/21 08:47	WP	XEN STF

Client Sample ID: Cell26-Square-134-S-3-4-210622 Lab Sample ID: 860-6594-3

Date Collected: 06/22/21 11:30 **Matrix: Solid**
Date Received: 06/24/21 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.95 g	5 mL	13816	07/03/21 14:22	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	13806	07/03/21 16:22	KLV	XEN STF
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	13463	07/01/21 09:03	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			13587	07/01/21 20:28	IS	XEN STF
Total/NA	Prep	300_Prep			5.03 g	50 mL	13631	07/02/21 07:04	JM	XEN STF
Total/NA	Analysis	300.0		1			13629	07/02/21 09:18	WP	XEN STF

Client Sample ID: Cell26-Square 206-S-3-4-210622 Lab Sample ID: 860-6594-4

Date Collected: 06/22/21 11:50 **Matrix: Solid**
Date Received: 06/24/21 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.97 g	5 mL	13816	07/03/21 14:22	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	13806	07/03/21 16:42	KLV	XEN STF
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	13463	07/01/21 09:03	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			13587	07/01/21 20:47	IS	XEN STF
Total/NA	Prep	300_Prep			5.01 g	50 mL	13631	07/02/21 07:04	JM	XEN STF
Total/NA	Analysis	300.0		1			13629	07/02/21 09:49	WP	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square-198-S-3-4-210622 Lab Sample ID: 860-6594-5

Date Collected: 06/22/21 12:20 **Matrix: Solid**
Date Received: 06/24/21 11:46

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	13816	07/03/21 14:22	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	13806	07/03/21 17:02	KLV	XEN STF
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	13463	07/01/21 09:03	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			13587	07/01/21 21:05	IS	XEN STF
Total/NA	Prep	300_Prep			4.93 g	50 mL	13631	07/02/21 07:04	JM	XEN STF
Total/NA	Analysis	300.0		1			13629	07/02/21 09:59	WP	XEN STF

Client Sample ID: Cell26-Square 75-S-3-4-210622 Lab Sample ID: 860-6594-6

Date Collected: 06/22/21 12:50 **Matrix: Solid**
Date Received: 06/24/21 11:46

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	13232	06/29/21 20:06	AW	XEN STF
Total/NA	Analysis	8260C		1	5 g	5 mL	13648	07/02/21 17:18	CSP	XEN STF
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	13463	07/01/21 09:03	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			13587	07/01/21 21:43	IS	XEN STF
Total/NA	Prep	300_Prep			4.95 g	50 mL	13631	07/02/21 07:04	JM	XEN STF
Total/NA	Analysis	300.0		1			13629	07/02/21 10:10	WP	XEN STF

Client Sample ID: Cell26-Square 14-S-3-4-210622 Lab Sample ID: 860-6594-7

Date Collected: 06/22/21 13:10 **Matrix: Solid**
Date Received: 06/24/21 11:46

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	13232	06/29/21 20:06	AW	XEN STF
Total/NA	Analysis	8260C		1	5 g	5 mL	13648	07/02/21 17:39	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	13463	07/01/21 09:03	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			13587	07/01/21 22:01	IS	XEN STF
Total/NA	Prep	300_Prep			4.98 g	50 mL	13631	07/02/21 07:04	JM	XEN STF
Total/NA	Analysis	300.0		1			13629	07/02/21 10:20	WP	XEN STF

Client Sample ID: Cell26-Square 67-S-3-4-210622 Lab Sample ID: 860-6594-8

Date Collected: 06/22/21 13:30 **Matrix: Solid**
Date Received: 06/24/21 11:46

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	13232	06/29/21 20:06	AW	XEN STF
Total/NA	Analysis	8260C		1	5 g	5 mL	13648	07/02/21 17:59	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	13463	07/01/21 09:03	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			13587	07/01/21 22:20	IS	XEN STF
Total/NA	Prep	300_Prep			5.03 g	50 mL	13631	07/02/21 07:04	JM	XEN STF
Total/NA	Analysis	300.0		1			13629	07/02/21 10:31	WP	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square 180-S-3-4-210622 Lab Sample ID: 860-6594-9

Date Collected: 06/22/21 13:55 **Matrix: Solid**
Date Received: 06/24/21 11:46

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	13232	06/29/21 20:06	AW	XEN STF
Total/NA	Analysis	8260C		1	5 g	5 mL	13648	07/02/21 18:20	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	13463	07/01/21 09:03	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			13587	07/01/21 22:38	IS	XEN STF
Total/NA	Prep	300_Prep			5.04 g	50 mL	13631	07/02/21 07:04	JM	XEN STF
Total/NA	Analysis	300.0		1			13629	07/02/21 10:41	WP	XEN STF

Client Sample ID: Cell26-Square 83-S-3-4-210622 Lab Sample ID: 860-6594-10

Date Collected: 06/22/21 14:25 **Matrix: Solid**
Date Received: 06/24/21 11:46

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	13232	06/29/21 20:06	AW	XEN STF
Total/NA	Analysis	8260C		1	5 g	5 mL	13648	07/02/21 18:40	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	13463	07/01/21 09:03	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			13587	07/01/21 22:57	IS	XEN STF
Total/NA	Prep	300_Prep			4.96 g	50 mL	13631	07/02/21 07:04	JM	XEN STF
Total/NA	Analysis	300.0		1			13629	07/02/21 10:52	WP	XEN STF

Client Sample ID: Cell26-Square 35-S-3-4-210622 Lab Sample ID: 860-6594-11

Date Collected: 06/22/21 14:50 **Matrix: Solid**
Date Received: 06/24/21 11:46

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	13816	07/03/21 14:22	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	13805	07/03/21 17:04	KLV	XEN STF
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	13463	07/01/21 09:03	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			13587	07/01/21 23:15	IS	XEN STF
Total/NA	Prep	300_Prep			5.02 g	50 mL	13631	07/02/21 07:04	JM	XEN STF
Total/NA	Analysis	300.0		1			13629	07/02/21 11:02	WP	XEN STF

Client Sample ID: Cell26-Square 65-S-3-4-210622 Lab Sample ID: 860-6594-12

Date Collected: 06/22/21 16:00 **Matrix: Solid**
Date Received: 06/24/21 11:46

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	13925	07/06/21 12:11	CSP	XEN STF
Total/NA	Analysis	8260C		25	5 g	5 mL	13881	07/06/21 13:55	CSP	XEN STF
Total/NA	Prep	5030C			5.02 g	5 mL	13925	07/06/21 12:11	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 g	5 mL	13881	07/06/21 14:15	CSP	XEN STF
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	13463	07/01/21 09:03	DAW	XEN STF
Total/NA	Analysis	8015B NM		1			13587	07/01/21 23:34	IS	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	13631	07/02/21 07:04	JM	XEN STF
Total/NA	Analysis	300.0		1			13629	07/02/21 11:12	WP	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-6594-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-6594-1
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	20-025-0	08-04-21
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
North Carolina (WW/SW)	State	681	12-31-21
Oklahoma	State	1306	08-31-21
Texas	NELAP	T104704215-21-42	06-30-22
USDA	US Federal Programs	P330-19-00137	04-24-22

Method Summary

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

Job ID: 860-6594-1

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
300.0	Anions, Ion Chromatography	MCAWW	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.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4147 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: 860-6594-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
860-6594-1	Cell26-Square 49-S-3-4-210622	Solid	06/22/21 10:30	06/24/21 11:46	
860-6594-2	Cell26-Square 32-S-3-4-210622	Solid	06/22/21 11:10	06/24/21 11:46	
860-6594-3	Cell26-Square-134-S-3-4-210622	Solid	06/22/21 11:30	06/24/21 11:46	
860-6594-4	Cell26-Square 206-S-3-4-210622	Solid	06/22/21 11:50	06/24/21 11:46	
860-6594-5	Cell26-Square-198-S-3-4-210622	Solid	06/22/21 12:20	06/24/21 11:46	
860-6594-6	Cell26-Square 75-S-3-4-210622	Solid	06/22/21 12:50	06/24/21 11:46	
860-6594-7	Cell26-Square 14-S-3-4-210622	Solid	06/22/21 13:10	06/24/21 11:46	
860-6594-8	Cell26-Square 67-S-3-4-210622	Solid	06/22/21 13:30	06/24/21 11:46	
860-6594-9	Cell26-Square 180-S-3-4-210622	Solid	06/22/21 13:55	06/24/21 11:46	
860-6594-10	Cell26-Square 83-S-3-4-210622	Solid	06/22/21 14:25	06/24/21 11:46	
860-6594-11	Cell26-Square 35-S-3-4-210622	Solid	06/22/21 14:50	06/24/21 11:46	
860-6594-12	Cell26-Square 65-S-3-4-210622	Solid	06/22/21 16:00	06/24/21 11:46	

Released to Imaging: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins

Client Information	Sampler: Justin Uhlan	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-2093-712.1
Client Contact: Sarah Johnson	Phone: 432 296-9547	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: NM	Page: Page 1 of 2
Company: ARCADIS U.S. Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): 5+0			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 303-316-6506(Tel)	PO #: Purchase Order Requested			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jal Land Farm #28	SSOW#:			

Analysis Requested

Temp 3.3 IR ID:HOU-272
C/F+0.1
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)	300_ORGFM_ Chloride	8260C BTEX	8015- GRO/DRO/ORO	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
Cell 26 Square 49 S 3-4 21022	6-22-21	1030	G	Solid			X	X	X	2	
Cell 26-Square 32 S 3-4 21022	6-22-21	1110	G	Solid			X	X	X	2	
Cell 26-Square 13 S 3-4-21022	6-22-21	1130	G	Solid			X	X	X	2	
Cell 26 Square 200 S 3-4-21022	6-22-21	1150	G	Solid			X	X	X	2	
Cell 25 Square 198 S 3-4-21022	6-22-21	1220	G	Solid			X	X	X	2	
Cell 25-Square 75 S 3-4 21022	6-22-21	1250	G	Solid			X	X	X	2	
Cell 25 Square 153 S 3-4-21022	6-22-21	1310	G	Solid			X	X	X	2	
Cell 25-Square 67 S-3-4 21022	6-22-21	1330	G	Solid			X	X	X	2	
Cell 21-Square 180 S-3-4 21022	6-22-21	1355	G	Solid			X	X	X	2	
Cell 21-Square 85-S 3-4 21022	6-22-21	1420	G	Solid			X	X	X	2	
Cell 21 Square 35 S 3-4 21022	6-22-21	1450	G	Solid			X	X	X	2	

860-6594 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:

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
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 6/24/21 1146	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: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins

Client Information	Sampler: Justin Nam	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-2093-712.1
Client Contact: Sarah Johnson	Phone: 432 296 9547	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: NM	Page: Page 2 of 2
Company: ARCADIS U.S. Inc.	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): STD			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 303-316-6506(Tel)	PO #: Purchase Order Requested			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jal Land farm unit 1	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	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_ Chloride	8260C BTEX	8015- GRO/DRO/ORO	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
6 1121 - square 65 S 3-4 71122	6 22 21	10	G	Solid			X	X	X	2	
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							

Loc 860
6594

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
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 6/24/21 1146	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: 860-6594-1

Login Number: 6594 **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: 860-6594-1

Login Number: 6594 **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.

Appendix B

October 2021 Laboratory Reports

eurofins | Environment Testing America



ANALYTICAL REPORT

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

Laboratory Job ID: 860-13162-1
Client Project/Site: Chevron - Jal Land Farm Soils
Revision: 1

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

Attn: Alison Schaffer



Authorized for release by:
1/7/2022 4:06:52 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: 860-13162-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA

Qualifier	Qualifier Description
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.

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
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.
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
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
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: 860-13162-1
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: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-13162-1

Laboratory: Eurofins Xenco

Narrative

Job Narrative
860-13162-1

The report was revised to correct the sample ID per the COC.

Receipt
The samples were received on 10/6/2021 11:03 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 0.3°C, 1.3°C, 2.3°C, 3.3°C, 4.2°C, 4.2°C and 5.3°C

Receipt Exceptions
The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): Cell20-157-5-3-4-211005 (860-13162-1), Cell20-132-5-3-4-211005 (860-13162-2), Cell20-47-5-3-4-211005 (860-13162-3), Cell20-51-5-3-4-211005 (860-13162-4), Cell19-104-5-3-4-211005 (860-13162-5), Cell19-80-5-3-4-211005 (860-13162-6) and Cell19-77-5-3-4-211005 (860-13162-7). sample container time does not match COC

GC/MS VOA
Method 8260B: The method blank for analytical batch 560-189770 contained methylene chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-analysis of samples was not performed.

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

GC/MS Semi VOA
Method 8270D_AgChem: The following samples were diluted due to the nature of the sample matrix: Cell20-47-5-3-4-211005 (860-13162-3), Cell19-104-5-3-4-211005 (860-13162-5), Cell19-80-5-3-4-211005 (860-13162-6) and Cell19-77-5-3-4-211005 (860-13162-7). Elevated reporting limits (RLs) are provided.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 860-25960 and analytical batch 860-25955 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC Semi VOA
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 duplicate (LCSD) for preparation batch 860-25978 and analytical batch 860-26526 recovered outside control limits for the following analytes: Endrin aldehyde. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8081B: The method blank for preparation batch 860-25978 contained DDT above the method detection limit (MDL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

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 860-25674 and 860-25674 and analytical batch 860-25564 contained Nitrate Nitrite as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL);

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-13162-1 (Continued)

Laboratory: Eurofins Xenco (Continued)

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: As per client request ISM subsampling was not performed on these samples. Cell20-157-5-3-4-211005 (860-13162-1), Cell20-132-5-3-4-211005 (860-13162-2), Cell20-47-5-3-4-211005 (860-13162-3), Cell20-51-5-3-4-211005 (860-13162-4), Cell19-104-5-3-4-211005 (860-13162-5), Cell19-80-5-3-4-211005 (860-13162-6), Cell19-77-5-3-4-211005 (860-13162-7), (860-13162-A-7 DU), (860-13162-A-7 MS), (860-13162-A-7 MSD) and (860-13162-A-7 TRL) in preparation batch 280-553176 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B.

Method 8330B: Sample contained free water.Cell20-47-5-3-4-211005 (860-13162-3) in preparation batch 280-553176 by ISM_DD_SI_SS 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: Cell20-157-5-3-4-211005 (860-13162-1), Cell20-132-5-3-4-211005 (860-13162-2), Cell20-47-5-3-4-211005 (860-13162-3), Cell20-51-5-3-4-211005 (860-13162-4), Cell19-104-5-3-4-211005 (860-13162-5), Cell19-80-5-3-4-211005 (860-13162-6), Cell19-77-5-3-4-211005 (860-13162-7), (860-13162-A-7 DU), (860-13162-A-7 MS), (860-13162-A-7 MSD) and (860-13162-A-7 TRL). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-553176 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B.

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

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

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

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

General Chemistry
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 160-530649Many 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-210Pb-210 Bi-210Cs-137 Ba-137mPb-212 Po-216Xe-131m Xe-131Sb-12
Te-125mAg-108m Ag-108Rh-106 Ru-106Pb-212 Th-228Pb-212 Ra-224U-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. Cell20-157-5-3-4-211005 (860-13162-1), Cell20-132-5-3-4-211005 (860-13162-2), Cell20-47-5-3-4-211005 (860-13162-3), Cell20-51-5-3-4-211005 (860-13162-4), Cell19-104-5-3-4-211005 (860-13162-5), Cell19-80-5-3-4-211005 (860-13162-6), Cell19-77-5-3-4-211005 (860-13162-7) and (860-13162-F-7-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.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-13162-1

Client Sample ID: Cell20-157-S-3-4-211005 Lab Sample ID: 860-13162-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	4.92	J b	24.1	4.83	ug/Kg	1		8260B	Total/NA
Chloride	10.7		9.90	3.50	mg/Kg	1		9056A	Total/NA
Nitrate as N	7.13		0.990	0.107	mg/Kg	1		9056A	Total/NA
Fluoride	4.03	J	4.95	0.990	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.591	J	0.990	0.0495	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	7.72	b	0.990	0.00495	mg/Kg	1		9056A	Total/NA
Sulfate	454		9.90	4.28	mg/Kg	1		9056A	Total/NA
Perchlorate	0.148	J	0.475	0.0783	ug/Kg	1		6860	Total/NA
Arsenic	1.47	J	3.64	0.561	mg/Kg	10		6020A	Total/NA
Barium	73.5		3.64	0.315	mg/Kg	10		6020A	Total/NA
Chromium	2.85	J	3.64	0.247	mg/Kg	10		6020A	Total/NA
Copper	1.58	J	3.64	0.237	mg/Kg	10		6020A	Total/NA
Iron	2410		18.2	2.13	mg/Kg	10		6020A	Total/NA
Manganese	35.0		1.82	0.231	mg/Kg	10		6020A	Total/NA
Lead	1.84		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	0.133	J	0.909	0.0543	mg/Kg	10		6020A	Total/NA
Zinc	10.8		3.64	0.402	mg/Kg	10		6020A	Total/NA
pH	8.8				SU	1		9045D	Soluble
Total Dissolved Solids	285		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell20-132-S-3-4-211005 Lab Sample ID: 860-13162-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.12	J	10.1	3.57	mg/Kg	1		9056A	Total/NA
Nitrate as N	3.52		1.01	0.109	mg/Kg	1		9056A	Total/NA
Fluoride	3.15	J	5.04	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.499	J	1.01	0.0504	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	4.02	b	1.01	0.00504	mg/Kg	1		9056A	Total/NA
Sulfate	1060		10.1	4.35	mg/Kg	1		9056A	Total/NA
Arsenic	1.68	J	3.64	0.561	mg/Kg	10		6020A	Total/NA
Barium	62.0		3.64	0.315	mg/Kg	10		6020A	Total/NA
Chromium	2.84	J	3.64	0.247	mg/Kg	10		6020A	Total/NA
Copper	1.54	J	3.64	0.237	mg/Kg	10		6020A	Total/NA
Iron	2450		18.2	2.13	mg/Kg	10		6020A	Total/NA
Manganese	29.1		1.82	0.231	mg/Kg	10		6020A	Total/NA
Lead	1.96		1.82	0.176	mg/Kg	10		6020A	Total/NA
Uranium	0.176	J	0.909	0.0543	mg/Kg	10		6020A	Total/NA
Zinc	21.7		3.64	0.402	mg/Kg	10		6020A	Total/NA
pH	8.8				SU	1		9045D	Soluble
Total Dissolved Solids	348		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell20-47-S-3-4-211005 Lab Sample ID: 860-13162-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	5.19	J b	23.7	4.74	ug/Kg	1		8260B	Total/NA
Xylenes, Total	0.939	J	9.49	0.474	ug/Kg	1		8260B	Total/NA
Chloride	9.57	J	10.0	3.55	mg/Kg	1		9056A	Total/NA
Nitrate as N	13.2		1.00	0.108	mg/Kg	1		9056A	Total/NA
Fluoride	4.42	J	5.02	1.00	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.615	J	1.00	0.0502	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	13.8	b	1.00	0.00502	mg/Kg	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco

Detection Summary

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

Job ID: 860-13162-1

Client Sample ID: Cell20-47-S-3-4-211005 (Continued) Lab Sample ID: 860-13162-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	529		10.0	4.34	mg/Kg	1		9056A	Total/NA
Perchlorate	0.0900	J	0.493	0.0812	ug/Kg	1		6860	Total/NA
Arsenic	1.03	J	3.92	0.605	mg/Kg	10		6020A	Total/NA
Barium	33.3		3.92	0.340	mg/Kg	10		6020A	Total/NA
Chromium	1.90	J	3.92	0.266	mg/Kg	10		6020A	Total/NA
Copper	0.995	J	3.92	0.256	mg/Kg	10		6020A	Total/NA
Iron	1670		19.6	2.30	mg/Kg	10		6020A	Total/NA
Manganese	21.0		1.96	0.250	mg/Kg	10		6020A	Total/NA
Lead	2.12		1.96	0.190	mg/Kg	10		6020A	Total/NA
Uranium	0.0912	J	0.980	0.0586	mg/Kg	10		6020A	Total/NA
Zinc	5.83		3.92	0.434	mg/Kg	10		6020A	Total/NA
pH	8.5				SU	1		9045D	Soluble
Total Dissolved Solids	249		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell20-51-S-3-4-211005 Lab Sample ID: 860-13162-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	0.744	J	9.40	0.470	ug/Kg	1		8260B	Total/NA
Chloride	14.1		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
Fluoride	1.97	J	5.03	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.752	J	1.01	0.0503	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	6.27	b	1.01	0.00503	mg/Kg	1		9056A	Total/NA
Sulfate	94.6		10.1	4.35	mg/Kg	1		9056A	Total/NA
Arsenic	2.09	J	3.92	0.605	mg/Kg	10		6020A	Total/NA
Barium	73.5		3.92	0.340	mg/Kg	10		6020A	Total/NA
Beryllium	0.245	J	1.96	0.181	mg/Kg	10		6020A	Total/NA
Chromium	4.88		3.92	0.266	mg/Kg	10		6020A	Total/NA
Copper	3.01	J	3.92	0.256	mg/Kg	10		6020A	Total/NA
Iron	4370		19.6	2.30	mg/Kg	10		6020A	Total/NA
Manganese	52.4		1.96	0.250	mg/Kg	10		6020A	Total/NA
Lead	3.03		1.96	0.190	mg/Kg	10		6020A	Total/NA
Antimony	0.174	J	1.96	0.117	mg/Kg	10		6020A	Total/NA
Uranium	0.196	J	0.980	0.0586	mg/Kg	10		6020A	Total/NA
Zinc	16.1		3.92	0.434	mg/Kg	10		6020A	Total/NA
pH	8.9				SU	1		9045D	Soluble
Total Dissolved Solids	160		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell19-104-S-3-4-211005 Lab Sample ID: 860-13162-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	18.1	J	166	12.6	ug/Kg	1		8270D	Total/NA
Chloride	7.70	J	9.94	3.52	mg/Kg	1		9056A	Total/NA
Nitrate as N	3.15		0.994	0.107	mg/Kg	1		9056A	Total/NA
Fluoride	2.90	J	4.97	0.994	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.648	J	0.994	0.0497	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	3.80	b	0.994	0.00497	mg/Kg	1		9056A	Total/NA
Sulfate	72.1		9.94	4.29	mg/Kg	1		9056A	Total/NA
Perchlorate	0.111	J	0.466	0.0767	ug/Kg	1		6860	Total/NA
Arsenic	2.33	J	3.70	0.571	mg/Kg	10		6020A	Total/NA
Barium	168		3.70	0.321	mg/Kg	10		6020A	Total/NA
Beryllium	0.215	J	1.85	0.171	mg/Kg	10		6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco

Detection Summary

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

Job ID: 860-13162-1

Client Sample ID: Cell19-104-S-3-4-211005 (Continued) Lab Sample ID: 860-13162-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	3.89		3.70	0.251	mg/Kg	10		6020A	Total/NA
Copper	2.28	J	3.70	0.242	mg/Kg	10		6020A	Total/NA
Iron	3230		18.5	2.17	mg/Kg	10		6020A	Total/NA
Manganese	47.1		1.85	0.236	mg/Kg	10		6020A	Total/NA
Lead	3.00		1.85	0.179	mg/Kg	10		6020A	Total/NA
Uranium	0.206	J	0.926	0.0554	mg/Kg	10		6020A	Total/NA
Zinc	11.1		3.70	0.410	mg/Kg	10		6020A	Total/NA
pH	9.1				SU	1		9045D	Soluble
Total Dissolved Solids	181		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell19-80-S-3-4-211005 Lab Sample ID: 860-13162-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11.5		9.84	3.48	mg/Kg	1		9056A	Total/NA
Nitrate as N	6.07		0.984	0.106	mg/Kg	1		9056A	Total/NA
Fluoride	4.87	J	4.92	0.984	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.735	J	0.984	0.0492	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	6.81	b	0.984	0.00492	mg/Kg	1		9056A	Total/NA
Sulfate	82.6		9.84	4.25	mg/Kg	1		9056A	Total/NA
Perchlorate	0.140	J	0.479	0.0789	ug/Kg	1		6860	Total/NA
Arsenic	1.69	J	3.51	0.541	mg/Kg	10		6020A	Total/NA
Barium	162		3.51	0.304	mg/Kg	10		6020A	Total/NA
Chromium	2.84	J	3.51	0.238	mg/Kg	10		6020A	Total/NA
Copper	1.53	J	3.51	0.229	mg/Kg	10		6020A	Total/NA
Iron	2350		17.5	2.06	mg/Kg	10		6020A	Total/NA
Manganese	27.4		1.75	0.223	mg/Kg	10		6020A	Total/NA
Lead	1.66	J	1.75	0.170	mg/Kg	10		6020A	Total/NA
Uranium	0.221	J	0.877	0.0524	mg/Kg	10		6020A	Total/NA
Zinc	8.37		3.51	0.388	mg/Kg	10		6020A	Total/NA
pH	9.1				SU	1		9045D	Soluble
Total Dissolved Solids	173		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell19-77-S-3-4-211005 Lab Sample ID: 860-13162-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10.4		9.88	3.50	mg/Kg	1		9056A	Total/NA
Nitrate as N	4.93		0.988	0.107	mg/Kg	1		9056A	Total/NA
Fluoride	5.26		4.94	0.988	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.592	J	0.988	0.0494	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	5.52	b	0.988	0.00494	mg/Kg	1		9056A	Total/NA
Sulfate	109		9.88	4.27	mg/Kg	1		9056A	Total/NA
Perchlorate	0.195	J	0.487	0.0802	ug/Kg	1		6860	Total/NA
Arsenic	2.18	J	3.51	0.541	mg/Kg	10		6020A	Total/NA
Barium	262		3.51	0.304	mg/Kg	10		6020A	Total/NA
Chromium	1.57	J	3.51	0.238	mg/Kg	10		6020A	Total/NA
Copper	1.32	J	3.51	0.229	mg/Kg	10		6020A	Total/NA
Iron	1260		17.5	2.06	mg/Kg	10		6020A	Total/NA
Manganese	19.1		1.75	0.223	mg/Kg	10		6020A	Total/NA
Lead	1.03	J	1.75	0.170	mg/Kg	10		6020A	Total/NA
Uranium	0.328	J	0.877	0.0524	mg/Kg	10		6020A	Total/NA
Zinc	5.11		3.51	0.388	mg/Kg	10		6020A	Total/NA
Mercury	0.00391	J	0.0182	0.00349	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

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

Job ID: 860-13162-1

Client Sample ID: Cell19-77-S-3-4-211005 (Continued) Lab Sample ID: 860-13162-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	9.3				SU	1		9045D	Soluble
Total Dissolved Solids	193		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell20-157-S-3-4-211005

Date Collected: 10/05/21 09:50
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-1

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.705	U	4.83	0.705	ug/Kg			10/12/21 12:49	1
Chloromethane	1.16	U	4.83	1.16	ug/Kg			10/12/21 12:49	1
Vinyl chloride	0.579	U	4.83	0.579	ug/Kg			10/12/21 12:49	1
Bromomethane	1.06	U	4.83	1.06	ug/Kg			10/12/21 12:49	1
Trichlorofluoromethane	0.483	U	4.83	0.483	ug/Kg			10/12/21 12:49	1
Acrolein	8.30	U	48.3	8.30	ug/Kg			10/12/21 12:49	1
1,1-Dichloroethene	0.483	U	4.83	0.483	ug/Kg			10/12/21 12:49	1
trans-1,2-Dichloroethene	0.483	U	4.83	0.483	ug/Kg			10/12/21 12:49	1
Methyl tert-butyl ether	0.589	U	4.83	0.589	ug/Kg			10/12/21 12:49	1
1,3-Dichlorobenzene	0.299	U	4.83	0.299	ug/Kg			10/12/21 12:49	1
Methylene Chloride	**4.92**	**J b**	24.1	4.83	ug/Kg			10/12/21 12:49	1
Acrylonitrile	3.47	U	48.3	3.47	ug/Kg			10/12/21 12:49	1
cis-1,2-Dichloroethene	0.550	U	4.83	0.550	ug/Kg			10/12/21 12:49	1
Carbon tetrachloride	0.492	U	4.83	0.492	ug/Kg			10/12/21 12:49	1
Benzene	0.608	U	4.83	0.608	ug/Kg			10/12/21 12:49	1
1,2-Dichloroethane	0.502	U	4.83	0.502	ug/Kg			10/12/21 12:49	1
Trichloroethene	0.270	U	4.83	0.270	ug/Kg			10/12/21 12:49	1
1,1,1-Trichloroethane	0.483	U	4.83	0.483	ug/Kg			10/12/21 12:49	1
1,1-Dichloroethane	0.569	U	4.83	0.569	ug/Kg			10/12/21 12:49	1
1,2-Dichloropropane	0.483	U	4.83	0.483	ug/Kg			10/12/21 12:49	1
1,4-Dioxane	18.3	U	96.5	18.3	ug/Kg			10/12/21 12:49	1
Chloroform	0.840	U	4.83	0.840	ug/Kg			10/12/21 12:49	1
Bromodichloromethane	0.193	U	4.83	0.193	ug/Kg			10/12/21 12:49	1
1,1-Dichloropropene	0.502	U	4.83	0.502	ug/Kg			10/12/21 12:49	1
cis-1,3-Dichloropropene	0.434	U	4.83	0.434	ug/Kg			10/12/21 12:49	1
Toluene	0.869	U	4.83	0.869	ug/Kg			10/12/21 12:49	1
trans-1,3-Dichloropropene	0.502	U	4.83	0.502	ug/Kg			10/12/21 12:49	1
1,1,2-Trichloroethane	0.483	U	4.83	0.483	ug/Kg			10/12/21 12:49	1
Tetrachloroethene	0.714	U	4.83	0.714	ug/Kg			10/12/21 12:49	1
1,3-Dichloropropene, Total	0.502	U	4.83	0.502	ug/Kg			10/12/21 12:49	1
1,2-Dibromoethane	0.290	U	4.83	0.290	ug/Kg			10/12/21 12:49	1
Monochlorobenzene	0.290	U	4.83	0.290	ug/Kg			10/12/21 12:49	1
Ethylbenzene	0.434	U	4.83	0.434	ug/Kg			10/12/21 12:49	1
Xylenes, Total	0.483	U	9.65	0.483	ug/Kg			10/12/21 12:49	1
Styrene	0.290	U	4.83	0.290	ug/Kg			10/12/21 12:49	1
Tribromomethane	0.492	U	4.83	0.492	ug/Kg			10/12/21 12:49	1
1,1,2,2-Tetrachloroethane	0.367	U	4.83	0.367	ug/Kg			10/12/21 12:49	1
1,4-Dichlorobenzene	0.309	U	4.83	0.309	ug/Kg			10/12/21 12:49	1
1,2-Dichlorobenzene	0.241	U	4.83	0.241	ug/Kg			10/12/21 12:49	1
1,2,4-Trichlorobenzene	0.936	U	4.83	0.936	ug/Kg			10/12/21 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 152*		*10/12/21 12:49*	*1*
Toluene-d8 (Surr)	*97*		*65 - 139*		*10/12/21 12:49*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 136*		*10/12/21 12:49*	*1*
4-Bromofluorobenzene (Surr)	*95*		*61 - 142*		*10/12/21 12:49*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	23.6	U	130	23.6	ug/Kg		10/19/21 16:25	10/25/21 22:05	2

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Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell20-157-S-3-4-211005

Date Collected: 10/05/21 09:50
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-1

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*88*		*30 - 164*	*10/19/21 16:25*	*10/25/21 22:05*	*2*

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		10/11/21 09:18	10/11/21 17:40	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		10/11/21 09:18	10/11/21 17:40	1

Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell20-157-S-3-4-211005

Date Collected: 10/05/21 09:50
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-1

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/11/21 09:18	10/11/21 17:40	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/11/21 09:18	10/11/21 17:40	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/11/21 09:18	10/11/21 17:40	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*	*10/11/21 09:18*	*10/11/21 17:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*30 - 115*	*10/11/21 09:18*	*10/11/21 17:40*	*1*
2-Fluorophenol	*83*		*25 - 121*	*10/11/21 09:18*	*10/11/21 17:40*	*1*
2,4,6-Tribromophenol	*77*		*19 - 122*	*10/11/21 09:18*	*10/11/21 17:40*	*1*
Nitrobenzene-d5	*83*		*23 - 129*	*10/11/21 09:18*	*10/11/21 17:40*	*1*
Phenol-d5 (Surr)	*82*		*24 - 113*	*10/11/21 09:18*	*10/11/21 17:40*	*1*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*	*10/11/21 09:18*	*10/11/21 17:40*	*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		10/07/21 11:41	10/07/21 19:13	1
Diesel Range Organics (Over C10-C28)	20.9	U	49.5	20.9	mg/Kg		10/07/21 11:41	10/07/21 19:13	1
Oil Range Organics (Over C28-C36)	20.9	U	49.5	20.9	mg/Kg		10/07/21 11:41	10/07/21 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*108*		*65 - 130*	*10/07/21 11:41*	*10/07/21 19:13*	*1*
1-Chlorooctane	*98*		*65 - 130*	*10/07/21 11:41*	*10/07/21 19:13*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	3.00	0.254	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Aldrin	0.363	U	3.00	0.363	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Hexachlorocyclohexane, alpha-	0.680	U	3.00	0.680	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Hexachlorocyclohexane, beta-	0.473	U	3.00	0.473	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Chlordane (technical)	23.9	U	82.9	23.9	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Hexachlorocyclohexane, delta-	0.833	U	3.00	0.833	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Endrin aldehyde	0.247	U *	3.00	0.247	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Hexachlorocyclohexane, gamma-	0.438	U	3.00	0.438	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Toxaphene	11.3	U	82.9	11.3	ug/Kg		10/11/21 10:23	10/14/21 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*35 - 135*	*10/11/21 10:23*	*10/14/21 12:45*	*1*

Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell20-157-S-3-4-211005

Date Collected: 10/05/21 09:50
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-1

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	126		25 - 143	10/11/21 10:23	10/14/21 12:45	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	0.0211	U	0.0931	0.0211	mg/Kg		10/14/21 18:05	10/15/21 20:25	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0400	U	0.186	0.0400	mg/Kg		10/14/21 18:05	10/15/21 20:25	1
2,4,6-Trinitrotoluene	0.0286	U	0.0931	0.0286	mg/Kg		10/14/21 18:05	10/15/21 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	103		83 - 122	10/14/21 18:05	10/15/21 20:25	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.7**		9.90	3.50	mg/Kg		10/07/21 16:10	10/08/21 00:21	1
Nitrate as N	**7.13**		0.990	0.107	mg/Kg		10/07/21 16:10	10/08/21 00:21	1
Fluoride	**4.03**	**J**	4.95	0.990	mg/Kg		10/07/21 16:10	10/08/21 00:21	1
Nitrite as N	**0.591**	**J**	0.990	0.0495	mg/Kg		10/07/21 16:10	10/08/21 00:21	1
Nitrate Nitrite as N	**7.72**	**b**	0.990	0.00495	mg/Kg		10/07/21 16:10	10/08/21 00:21	1
Sulfate	**454**		9.90	4.28	mg/Kg		10/07/21 16:10	10/08/21 00:21	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.148**	**J**	0.475	0.0783	ug/Kg		10/11/21 13:18	10/12/21 14:12	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		10/13/21 10:29	10/15/21 09:26	1
Perfluorohexanesulfonic acid (PFHxS)	0.277	U	0.791	0.277	ug/Kg		10/13/21 10:29	10/15/21 09:26	1
Perfluorooctanesulfonic acid (PFOS)	0.138	U	0.791	0.138	ug/Kg		10/13/21 10:29	10/15/21 09:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	102		57 - 153	10/13/21 10:29	10/15/21 09:26	1
13C8 PFOS	104		70 - 130	10/13/21 10:29	10/15/21 09:26	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		10/12/21 10:43	10/12/21 18:40	10
Arsenic	**1.47**	**J**	3.64	0.561	mg/Kg		10/12/21 10:43	10/12/21 18:40	10
Barium	**73.5**		3.64	0.315	mg/Kg		10/12/21 10:43	10/12/21 18:40	10
Beryllium	0.168	U	1.82	0.168	mg/Kg		10/12/21 10:43	10/12/21 18:40	10
Cadmium	0.105	U	1.82	0.105	mg/Kg		10/12/21 10:43	10/12/21 18:40	10
Chromium	**2.85**	**J**	3.64	0.247	mg/Kg		10/12/21 10:43	10/12/21 18:40	10
Copper	**1.58**	**J**	3.64	0.237	mg/Kg		10/12/21 10:43	10/12/21 18:40	10
Iron	**2410**		18.2	2.13	mg/Kg		10/12/21 10:43	10/12/21 18:40	10
Manganese	**35.0**		1.82	0.231	mg/Kg		10/12/21 10:43	10/12/21 18:40	10
Lead	**1.84**		1.82	0.176	mg/Kg		10/12/21 10:43	10/12/21 18:40	10
Antimony	**0.127**	**J**	1.82	0.108	mg/Kg		10/12/21 10:43	10/12/21 18:40	10
Selenium	0.451	U	1.82	0.451	mg/Kg		10/12/21 10:43	10/12/21 18:40	10
Thallium	0.217	U	1.82	0.217	mg/Kg		10/12/21 10:43	10/12/21 18:40	10
Uranium	**0.133**	**J**	0.909	0.0543	mg/Kg		10/12/21 10:43	10/12/21 18:40	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-157-S-3-4-211005 Lab Sample ID: 860-13162-1
Date Collected: 10/05/21 09:50 **Matrix: Solid**
Date Received: 10/06/21 11:03

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**10.8**		3.64	0.402	mg/Kg		10/12/21 10:43	10/13/21 11:24	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00377	U	0.0196	0.00377	mg/Kg		10/07/21 12:20	10/07/21 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.8	U	60.1	29.8	ug/Kg		10/19/21 13:27	10/19/21 15:22	1
Phenols, Total	0.0594	U	0.0990	0.0594	mg/Kg		10/21/21 08:30	10/22/21 10:29	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.8**				SU			10/07/21 11:40	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**285**		10.0	10.0	mg/L			10/21/21 15:00	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	**0.357**		0.107	0.113	1.00	0.0958	pCi/g	10/11/21 10:41	11/05/21 07:59	1
Radium-228	**0.337**		0.141	0.145		0.148	pCi/g	10/11/21 10:41	11/05/21 07:59	1
Combined Radium 226 + 228	**0.693**		0.177	0.184		0.148	pCi/g	10/11/21 10:41	11/05/21 07:59	1

Client Sample ID: Cell20-157-S-3-4-211005 Lab Sample ID: 860-13162-1
Date Collected: 10/05/21 09:50 **Matrix: Solid**
Date Received: 10/06/21 11:03 **Percent Solids: 91.7**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00274	U	0.00547	0.00274	mg/Kg	☼	10/11/21 11:34	10/19/21 11:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 144*	*10/11/21 11:34*	*10/19/21 11:01*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00431	U	0.0182	0.00431	mg/Kg	☼	10/11/21 10:23	10/13/21 00:17	1
Aroclor 1221	0.00431	U	0.0182	0.00431	mg/Kg	☼	10/11/21 10:23	10/13/21 00:17	1
Aroclor 1232	0.00431	U	0.0182	0.00431	mg/Kg	☼	10/11/21 10:23	10/13/21 00:17	1
Aroclor 1242	0.00431	U	0.0182	0.00431	mg/Kg	☼	10/11/21 10:23	10/13/21 00:17	1
Aroclor 1248	0.00431	U	0.0182	0.00431	mg/Kg	☼	10/11/21 10:23	10/13/21 00:17	1
Aroclor 1254	0.00284	U	0.0182	0.00284	mg/Kg	☼	10/11/21 10:23	10/13/21 00:17	1
Aroclor 1260	0.00284	U	0.0182	0.00284	mg/Kg	☼	10/11/21 10:23	10/13/21 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*35 - 140*	*10/11/21 10:23*	*10/13/21 00:17*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*37 - 142*	*10/11/21 10:23*	*10/13/21 00:17*	*1*

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Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell20-132-S-3-4-211005

Date Collected: 10/05/21 10:22
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-2

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.701	U	4.80	0.701	ug/Kg			10/12/21 13:15	1
Chloromethane	1.15	U	4.80	1.15	ug/Kg			10/12/21 13:15	1
Vinyl chloride	0.576	U	4.80	0.576	ug/Kg			10/12/21 13:15	1
Bromomethane	1.06	U	4.80	1.06	ug/Kg			10/12/21 13:15	1
Trichlorofluoromethane	0.480	U	4.80	0.480	ug/Kg			10/12/21 13:15	1
Acrolein	8.25	U	48.0	8.25	ug/Kg			10/12/21 13:15	1
1,1-Dichloroethene	0.480	U	4.80	0.480	ug/Kg			10/12/21 13:15	1
trans-1,2-Dichloroethene	0.480	U	4.80	0.480	ug/Kg			10/12/21 13:15	1
Methyl tert-butyl ether	0.585	U	4.80	0.585	ug/Kg			10/12/21 13:15	1
1,3-Dichlorobenzene	0.298	U	4.80	0.298	ug/Kg			10/12/21 13:15	1
Methylene Chloride	4.80	U	24.0	4.80	ug/Kg			10/12/21 13:15	1
Acrylonitrile	3.45	U	48.0	3.45	ug/Kg			10/12/21 13:15	1
cis-1,2-Dichloroethene	0.547	U	4.80	0.547	ug/Kg			10/12/21 13:15	1
Carbon tetrachloride	0.489	U	4.80	0.489	ug/Kg			10/12/21 13:15	1
Benzene	0.605	U	4.80	0.605	ug/Kg			10/12/21 13:15	1
1,2-Dichloroethane	0.499	U	4.80	0.499	ug/Kg			10/12/21 13:15	1
Trichloroethene	0.269	U	4.80	0.269	ug/Kg			10/12/21 13:15	1
1,1,1-Trichloroethane	0.480	U	4.80	0.480	ug/Kg			10/12/21 13:15	1
1,1-Dichloroethane	0.566	U	4.80	0.566	ug/Kg			10/12/21 13:15	1
1,2-Dichloropropane	0.480	U	4.80	0.480	ug/Kg			10/12/21 13:15	1
1,4-Dioxane	18.2	U	96.0	18.2	ug/Kg			10/12/21 13:15	1
Chloroform	0.835	U	4.80	0.835	ug/Kg			10/12/21 13:15	1
Bromodichloromethane	0.192	U	4.80	0.192	ug/Kg			10/12/21 13:15	1
1,1-Dichloropropene	0.499	U	4.80	0.499	ug/Kg			10/12/21 13:15	1
cis-1,3-Dichloropropene	0.432	U	4.80	0.432	ug/Kg			10/12/21 13:15	1
Toluene	0.864	U	4.80	0.864	ug/Kg			10/12/21 13:15	1
trans-1,3-Dichloropropene	0.499	U	4.80	0.499	ug/Kg			10/12/21 13:15	1
1,1,2-Trichloroethane	0.480	U	4.80	0.480	ug/Kg			10/12/21 13:15	1
Tetrachloroethene	0.710	U	4.80	0.710	ug/Kg			10/12/21 13:15	1
1,3-Dichloropropene, Total	0.499	U	4.80	0.499	ug/Kg			10/12/21 13:15	1
1,2-Dibromoethane	0.288	U	4.80	0.288	ug/Kg			10/12/21 13:15	1
Monochlorobenzene	0.288	U	4.80	0.288	ug/Kg			10/12/21 13:15	1
Ethylbenzene	0.432	U	4.80	0.432	ug/Kg			10/12/21 13:15	1
Xylenes, Total	0.480	U	9.60	0.480	ug/Kg			10/12/21 13:15	1
Styrene	0.288	U	4.80	0.288	ug/Kg			10/12/21 13:15	1
Tribromomethane	0.489	U	4.80	0.489	ug/Kg			10/12/21 13:15	1
1,1,2,2-Tetrachloroethane	0.365	U	4.80	0.365	ug/Kg			10/12/21 13:15	1
1,4-Dichlorobenzene	0.307	U	4.80	0.307	ug/Kg			10/12/21 13:15	1
1,2-Dichlorobenzene	0.240	U	4.80	0.240	ug/Kg			10/12/21 13:15	1
1,2,4-Trichlorobenzene	0.931	U	4.80	0.931	ug/Kg			10/12/21 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 152*		*10/12/21 13:15*	*1*
Toluene-d8 (Surr)	*99*		*65 - 139*		*10/12/21 13:15*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 136*		*10/12/21 13:15*	*1*
4-Bromofluorobenzene (Surr)	*99*		*61 - 142*		*10/12/21 13:15*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	23.2	U	128	23.2	ug/Kg		10/19/21 16:25	10/23/21 15:16	2

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Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell20-132-S-3-4-211005

Date Collected: 10/05/21 10:22
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-2

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	137		30 - 164	10/19/21 16:25	10/23/21 15:16	2

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		10/11/21 09:18	10/11/21 21:21	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		10/11/21 09:18	10/11/21 21:21	1

Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell20-132-S-3-4-211005

Date Collected: 10/05/21 10:22
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-2

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/11/21 09:18	10/11/21 21:21	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/11/21 09:18	10/11/21 21:21	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/11/21 09:18	10/11/21 21:21	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*	*10/11/21 09:18*	*10/11/21 21:21*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*30 - 115*	*10/11/21 09:18*	*10/11/21 21:21*	*1*
2-Fluorophenol	*81*		*25 - 121*	*10/11/21 09:18*	*10/11/21 21:21*	*1*
2,4,6-Tribromophenol	*76*		*19 - 122*	*10/11/21 09:18*	*10/11/21 21:21*	*1*
Nitrobenzene-d5	*82*		*23 - 129*	*10/11/21 09:18*	*10/11/21 21:21*	*1*
Phenol-d5 (Surr)	*77*		*24 - 113*	*10/11/21 09:18*	*10/11/21 21:21*	*1*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*	*10/11/21 09:18*	*10/11/21 21:21*	*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	20.9	U	49.6	20.9	mg/Kg		10/07/21 11:41	10/08/21 10:24	1
Diesel Range Organics (Over C10-C28)	20.9	U	49.6	20.9	mg/Kg		10/07/21 11:41	10/08/21 10:24	1
Oil Range Organics (Over C28-C36)	20.9	U	49.6	20.9	mg/Kg		10/07/21 11:41	10/08/21 10:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*97*		*65 - 130*	*10/07/21 11:41*	*10/08/21 10:24*	*1*
1-Chlorooctane	*91*		*65 - 130*	*10/07/21 11:41*	*10/08/21 10:24*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	3.00	0.253	ug/Kg		10/11/21 10:23	10/14/21 13:01	1
Aldrin	0.362	U	3.00	0.362	ug/Kg		10/11/21 10:23	10/14/21 13:01	1
Hexachlorocyclohexane, alpha-	0.679	U	3.00	0.679	ug/Kg		10/11/21 10:23	10/14/21 13:01	1
Hexachlorocyclohexane, beta-	0.473	U	3.00	0.473	ug/Kg		10/11/21 10:23	10/14/21 13:01	1
Chlordane (technical)	23.9	U	82.9	23.9	ug/Kg		10/11/21 10:23	10/14/21 13:01	1
Hexachlorocyclohexane, delta-	0.832	U	3.00	0.832	ug/Kg		10/11/21 10:23	10/14/21 13:01	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/11/21 10:23	10/14/21 13:01	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/11/21 10:23	10/14/21 13:01	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/11/21 10:23	10/14/21 13:01	1
Endosulfan sulfate	0.275	U	3.00	0.275	ug/Kg		10/11/21 10:23	10/14/21 13:01	1
Endrin	0.290	U	3.00	0.290	ug/Kg		10/11/21 10:23	10/14/21 13:01	1
Endrin aldehyde	0.247	U *	3.00	0.247	ug/Kg		10/11/21 10:23	10/14/21 13:01	1
Hexachlorocyclohexane, gamma-	0.438	U	3.00	0.438	ug/Kg		10/11/21 10:23	10/14/21 13:01	1
Heptachlor	0.561	U	3.00	0.561	ug/Kg		10/11/21 10:23	10/14/21 13:01	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/11/21 10:23	10/14/21 13:01	1
Toxaphene	11.3	U	82.9	11.3	ug/Kg		10/11/21 10:23	10/14/21 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*35 - 135*	*10/11/21 10:23*	*10/14/21 13:01*	*1*

Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell20-132-S-3-4-211005

Date Collected: 10/05/21 10:22
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-2

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	130		25 - 143	10/11/21 10:23	10/14/21 13:01	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	0.0207	U	0.0912	0.0207	mg/Kg		10/14/21 18:05	10/15/21 20:48	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0392	U	0.182	0.0392	mg/Kg		10/14/21 18:05	10/15/21 20:48	1
2,4,6-Trinitrotoluene	0.0280	U	0.0912	0.0280	mg/Kg		10/14/21 18:05	10/15/21 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	103		83 - 122	10/14/21 18:05	10/15/21 20:48	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.12**	**J**	10.1	3.57	mg/Kg		10/07/21 16:10	10/08/21 00:54	1
Nitrate as N	**3.52**		1.01	0.109	mg/Kg		10/07/21 16:10	10/08/21 00:54	1
Fluoride	**3.15**	**J**	5.04	1.01	mg/Kg		10/07/21 16:10	10/08/21 00:54	1
Nitrite as N	**0.499**	**J**	1.01	0.0504	mg/Kg		10/07/21 16:10	10/08/21 00:54	1
Nitrate Nitrite as N	**4.02**	**b**	1.01	0.00504	mg/Kg		10/07/21 16:10	10/08/21 00:54	1
Sulfate	**1060**		10.1	4.35	mg/Kg		10/07/21 16:10	10/08/21 00:54	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0804	U	0.488	0.0804	ug/Kg		10/11/21 13:18	10/12/21 14:17	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	0.738	0.212	ug/Kg		10/13/21 10:29	10/15/21 09:53	1
Perfluorohexanesulfonic acid (PFHxS)	0.258	U	0.738	0.258	ug/Kg		10/13/21 10:29	10/15/21 09:53	1
Perfluorooctanesulfonic acid (PFOS)	0.129	U	0.738	0.129	ug/Kg		10/13/21 10:29	10/15/21 09:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	101		57 - 153	10/13/21 10:29	10/15/21 09:53	1
13C8 PFOS	100		70 - 130	10/13/21 10:29	10/15/21 09:53	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		10/12/21 10:43	10/12/21 18:43	10
Arsenic	**1.68**	**J**	3.64	0.561	mg/Kg		10/12/21 10:43	10/12/21 18:43	10
Barium	**62.0**		3.64	0.315	mg/Kg		10/12/21 10:43	10/12/21 18:43	10
Beryllium	0.168	U	1.82	0.168	mg/Kg		10/12/21 10:43	10/12/21 18:43	10
Cadmium	0.105	U	1.82	0.105	mg/Kg		10/12/21 10:43	10/12/21 18:43	10
Chromium	**2.84**	**J**	3.64	0.247	mg/Kg		10/12/21 10:43	10/12/21 18:43	10
Copper	**1.54**	**J**	3.64	0.237	mg/Kg		10/12/21 10:43	10/12/21 18:43	10
Iron	**2450**		18.2	2.13	mg/Kg		10/12/21 10:43	10/12/21 18:43	10
Manganese	**29.1**		1.82	0.231	mg/Kg		10/12/21 10:43	10/12/21 18:43	10
Lead	**1.96**		1.82	0.176	mg/Kg		10/12/21 10:43	10/12/21 18:43	10
Antimony	0.108	U	1.82	0.108	mg/Kg		10/12/21 10:43	10/12/21 18:43	10
Selenium	0.451	U	1.82	0.451	mg/Kg		10/12/21 10:43	10/12/21 18:43	10
Thallium	0.217	U	1.82	0.217	mg/Kg		10/12/21 10:43	10/12/21 18:43	10
Uranium	**0.176**	**J**	0.909	0.0543	mg/Kg		10/12/21 10:43	10/12/21 18:43	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-132-S-3-4-211005 Lab Sample ID: 860-13162-2
Date Collected: 10/05/21 10:22 **Matrix: Solid**
Date Received: 10/06/21 11:03

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**21.7**		3.64	0.402	mg/Kg		10/12/21 10:43	10/13/21 11:27	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00356	U	0.0185	0.00356	mg/Kg		10/07/21 12:20	10/07/21 14:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.8	U	60.0	29.8	ug/Kg		10/19/21 13:27	10/19/21 15:26	1
Phenols, Total	0.0584	U	0.0974	0.0584	mg/Kg		10/21/21 08:30	10/22/21 10:37	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.8**				SU			10/07/21 11:40	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**348**		10.0	10.0	mg/L			10/21/21 15:00	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	**0.380**		0.112	0.119	1.00	0.110	pCi/g	10/11/21 10:41	11/05/21 07:57	1
Radium-228	**0.280**		0.180	0.182		0.185	pCi/g	10/11/21 10:41	11/05/21 07:57	1
Combined Radium 226 + 228	**0.660**		0.212	0.217		0.185	pCi/g	10/11/21 10:41	11/05/21 07:57	1

Client Sample ID: Cell20-132-S-3-4-211005 Lab Sample ID: 860-13162-2
Date Collected: 10/05/21 10:22 **Matrix: Solid**
Date Received: 10/06/21 11:03 **Percent Solids: 82.0**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00305	U	0.00609	0.00305	mg/Kg	☼	10/11/21 11:34	10/19/21 11:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*63 - 144*	*10/11/21 11:34*	*10/19/21 11:18*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00481	U	0.0203	0.00481	mg/Kg	☼	10/11/21 10:23	10/13/21 00:26	1
Aroclor 1221	0.00481	U	0.0203	0.00481	mg/Kg	☼	10/11/21 10:23	10/13/21 00:26	1
Aroclor 1232	0.00481	U	0.0203	0.00481	mg/Kg	☼	10/11/21 10:23	10/13/21 00:26	1
Aroclor 1242	0.00481	U	0.0203	0.00481	mg/Kg	☼	10/11/21 10:23	10/13/21 00:26	1
Aroclor 1248	0.00481	U	0.0203	0.00481	mg/Kg	☼	10/11/21 10:23	10/13/21 00:26	1
Aroclor 1254	0.00317	U	0.0203	0.00317	mg/Kg	☼	10/11/21 10:23	10/13/21 00:26	1
Aroclor 1260	0.00317	U	0.0203	0.00317	mg/Kg	☼	10/11/21 10:23	10/13/21 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*35 - 140*	*10/11/21 10:23*	*10/13/21 00:26*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*37 - 142*	*10/11/21 10:23*	*10/13/21 00:26*	*1*

Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell20-47-S-3-4-211005

Date Collected: 10/05/21 11:05
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-3

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.693	U	4.74	0.693	ug/Kg			10/12/21 13:40	1
Chloromethane	1.14	U	4.74	1.14	ug/Kg			10/12/21 13:40	1
Vinyl chloride	0.569	U	4.74	0.569	ug/Kg			10/12/21 13:40	1
Bromomethane	1.04	U	4.74	1.04	ug/Kg			10/12/21 13:40	1
Trichlorofluoromethane	0.474	U	4.74	0.474	ug/Kg			10/12/21 13:40	1
Acrolein	8.16	U	47.4	8.16	ug/Kg			10/12/21 13:40	1
1,1-Dichloroethene	0.474	U	4.74	0.474	ug/Kg			10/12/21 13:40	1
trans-1,2-Dichloroethene	0.474	U	4.74	0.474	ug/Kg			10/12/21 13:40	1
Methyl tert-butyl ether	0.579	U	4.74	0.579	ug/Kg			10/12/21 13:40	1
1,3-Dichlorobenzene	0.294	U	4.74	0.294	ug/Kg			10/12/21 13:40	1
Methylene Chloride	**5.19**	**J b**	23.7	4.74	ug/Kg			10/12/21 13:40	1
Acrylonitrile	3.42	U	47.4	3.42	ug/Kg			10/12/21 13:40	1
cis-1,2-Dichloroethene	0.541	U	4.74	0.541	ug/Kg			10/12/21 13:40	1
Carbon tetrachloride	0.484	U	4.74	0.484	ug/Kg			10/12/21 13:40	1
Benzene	0.598	U	4.74	0.598	ug/Kg			10/12/21 13:40	1
1,2-Dichloroethane	0.493	U	4.74	0.493	ug/Kg			10/12/21 13:40	1
Trichloroethene	0.266	U	4.74	0.266	ug/Kg			10/12/21 13:40	1
1,1,1-Trichloroethane	0.474	U	4.74	0.474	ug/Kg			10/12/21 13:40	1
1,1-Dichloroethane	0.560	U	4.74	0.560	ug/Kg			10/12/21 13:40	1
1,2-Dichloropropane	0.474	U	4.74	0.474	ug/Kg			10/12/21 13:40	1
1,4-Dioxane	18.0	U	94.9	18.0	ug/Kg			10/12/21 13:40	1
Chloroform	0.825	U	4.74	0.825	ug/Kg			10/12/21 13:40	1
Bromodichloromethane	0.190	U	4.74	0.190	ug/Kg			10/12/21 13:40	1
1,1-Dichloropropene	0.493	U	4.74	0.493	ug/Kg			10/12/21 13:40	1
cis-1,3-Dichloropropene	0.427	U	4.74	0.427	ug/Kg			10/12/21 13:40	1
Toluene	0.854	U	4.74	0.854	ug/Kg			10/12/21 13:40	1
trans-1,3-Dichloropropene	0.493	U	4.74	0.493	ug/Kg			10/12/21 13:40	1
1,1,2-Trichloroethane	0.474	U	4.74	0.474	ug/Kg			10/12/21 13:40	1
Tetrachloroethene	0.702	U	4.74	0.702	ug/Kg			10/12/21 13:40	1
1,3-Dichloropropene, Total	0.493	U	4.74	0.493	ug/Kg			10/12/21 13:40	1
1,2-Dibromoethane	0.285	U	4.74	0.285	ug/Kg			10/12/21 13:40	1
Monochlorobenzene	0.285	U	4.74	0.285	ug/Kg			10/12/21 13:40	1
Ethylbenzene	0.427	U	4.74	0.427	ug/Kg			10/12/21 13:40	1
Xylenes, Total	**0.939**	**J**	9.49	0.474	ug/Kg			10/12/21 13:40	1
Styrene	0.285	U	4.74	0.285	ug/Kg			10/12/21 13:40	1
Tribromomethane	0.484	U	4.74	0.484	ug/Kg			10/12/21 13:40	1
1,1,2,2-Tetrachloroethane	0.361	U	4.74	0.361	ug/Kg			10/12/21 13:40	1
1,4-Dichlorobenzene	0.304	U	4.74	0.304	ug/Kg			10/12/21 13:40	1
1,2-Dichlorobenzene	0.237	U	4.74	0.237	ug/Kg			10/12/21 13:40	1
1,2,4-Trichlorobenzene	0.920	U	4.74	0.920	ug/Kg			10/12/21 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 152*		*10/12/21 13:40*	*1*
Toluene-d8 (Surr)	*99*		*65 - 139*		*10/12/21 13:40*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 136*		*10/12/21 13:40*	*1*
4-Bromofluorobenzene (Surr)	*104*		*61 - 142*		*10/12/21 13:40*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	23.5	U	129	23.5	ug/Kg		10/19/21 16:25	10/25/21 22:32	2

Eurofins Xenco

Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell20-47-S-3-4-211005

Date Collected: 10/05/21 11:05
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-3

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	81		30 - 164	10/19/21 16:25	10/25/21 22:32	2

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		10/11/21 09:18	10/11/21 21:42	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		10/11/21 09:18	10/11/21 21:42	1

Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell20-47-S-3-4-211005

Date Collected: 10/05/21 11:05
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-3

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/11/21 09:18	10/11/21 21:42	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/11/21 09:18	10/11/21 21:42	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/11/21 09:18	10/11/21 21:42	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*	*10/11/21 09:18*	*10/11/21 21:42*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*41*		*30 - 115*	*10/11/21 09:18*	*10/11/21 21:42*	*1*
2-Fluorophenol	*43*		*25 - 121*	*10/11/21 09:18*	*10/11/21 21:42*	*1*
2,4,6-Tribromophenol	*42*		*19 - 122*	*10/11/21 09:18*	*10/11/21 21:42*	*1*
Nitrobenzene-d5	*41*		*23 - 129*	*10/11/21 09:18*	*10/11/21 21:42*	*1*
Phenol-d5 (Surr)	*42*		*24 - 113*	*10/11/21 09:18*	*10/11/21 21:42*	*1*
p-Terphenyl-d14 (Surr)	*42*		*18 - 137*	*10/11/21 09:18*	*10/11/21 21:42*	*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	21.1	U	50.0	21.1	mg/Kg		10/07/21 11:41	10/07/21 19:49	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		10/07/21 11:41	10/07/21 19:49	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		10/07/21 11:41	10/07/21 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*101*		*65 - 130*	*10/07/21 11:41*	*10/07/21 19:49*	*1*
1-Chlorooctane	*92*		*65 - 130*	*10/07/21 11:41*	*10/07/21 19:49*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	3.00	0.253	ug/Kg		10/11/21 10:23	10/14/21 13:17	1
Aldrin	0.362	U	3.00	0.362	ug/Kg		10/11/21 10:23	10/14/21 13:17	1
Hexachlorocyclohexane, alpha-	0.679	U	3.00	0.679	ug/Kg		10/11/21 10:23	10/14/21 13:17	1
Hexachlorocyclohexane, beta-	0.473	U	3.00	0.473	ug/Kg		10/11/21 10:23	10/14/21 13:17	1
Chlordane (technical)	23.9	U	82.9	23.9	ug/Kg		10/11/21 10:23	10/14/21 13:17	1
Hexachlorocyclohexane, delta-	0.832	U	3.00	0.832	ug/Kg		10/11/21 10:23	10/14/21 13:17	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/11/21 10:23	10/14/21 13:17	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/11/21 10:23	10/14/21 13:17	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/11/21 10:23	10/14/21 13:17	1
Endosulfan sulfate	0.275	U	3.00	0.275	ug/Kg		10/11/21 10:23	10/14/21 13:17	1
Endrin	0.290	U	3.00	0.290	ug/Kg		10/11/21 10:23	10/14/21 13:17	1
Endrin aldehyde	0.247	U *	3.00	0.247	ug/Kg		10/11/21 10:23	10/14/21 13:17	1
Hexachlorocyclohexane, gamma-	0.438	U	3.00	0.438	ug/Kg		10/11/21 10:23	10/14/21 13:17	1
Heptachlor	0.561	U	3.00	0.561	ug/Kg		10/11/21 10:23	10/14/21 13:17	1
Heptachlor epoxide	0.244	U	3.00	0.244	ug/Kg		10/11/21 10:23	10/14/21 13:17	1
Toxaphene	11.3	U	82.9	11.3	ug/Kg		10/11/21 10:23	10/14/21 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*35 - 135*	*10/11/21 10:23*	*10/14/21 13:17*	*1*

Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell20-47-S-3-4-211005

Date Collected: 10/05/21 11:05
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-3

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	122		25 - 143	10/11/21 10:23	10/14/21 13:17	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		10/14/21 18:05	10/15/21 21:11	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0421	U	0.196	0.0421	mg/Kg		10/14/21 18:05	10/15/21 21:11	1
2,4,6-Trinitrotoluene	0.0300	U	0.0978	0.0300	mg/Kg		10/14/21 18:05	10/15/21 21:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	104		83 - 122	10/14/21 18:05	10/15/21 21:11	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.57**	**J**	10.0	3.55	mg/Kg		10/07/21 16:10	10/08/21 01:05	1
Nitrate as N	**13.2**		1.00	0.108	mg/Kg		10/07/21 16:10	10/08/21 01:05	1
Fluoride	**4.42**	**J**	5.02	1.00	mg/Kg		10/07/21 16:10	10/08/21 01:05	1
Nitrite as N	**0.615**	**J**	1.00	0.0502	mg/Kg		10/07/21 16:10	10/08/21 01:05	1
Nitrate Nitrite as N	**13.8**	**b**	1.00	0.00502	mg/Kg		10/07/21 16:10	10/08/21 01:05	1
Sulfate	**529**		10.0	4.34	mg/Kg		10/07/21 16:10	10/08/21 01:05	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.0900**	**J**	0.493	0.0812	ug/Kg		10/11/21 13:18	10/12/21 14:23	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	0.797	0.229	ug/Kg		10/13/21 10:29	10/15/21 10:01	1
Perfluorohexanesulfonic acid (PFHxS)	0.279	U	0.797	0.279	ug/Kg		10/13/21 10:29	10/15/21 10:01	1
Perfluorooctanesulfonic acid (PFOS)	0.139	U	0.797	0.139	ug/Kg		10/13/21 10:29	10/15/21 10:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	101		57 - 153	10/13/21 10:29	10/15/21 10:01	1
13C8 PFOS	100		70 - 130	10/13/21 10:29	10/15/21 10:01	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.156	U	1.96	0.156	mg/Kg		10/12/21 10:43	10/12/21 18:46	10
Arsenic	**1.03**	**J**	3.92	0.605	mg/Kg		10/12/21 10:43	10/12/21 18:46	10
Barium	**33.3**		3.92	0.340	mg/Kg		10/12/21 10:43	10/12/21 18:46	10
Beryllium	0.181	U	1.96	0.181	mg/Kg		10/12/21 10:43	10/12/21 18:46	10
Cadmium	0.114	U	1.96	0.114	mg/Kg		10/12/21 10:43	10/12/21 18:46	10
Chromium	**1.90**	**J**	3.92	0.266	mg/Kg		10/12/21 10:43	10/12/21 18:46	10
Copper	**0.995**	**J**	3.92	0.256	mg/Kg		10/12/21 10:43	10/12/21 18:46	10
Iron	**1670**		19.6	2.30	mg/Kg		10/12/21 10:43	10/12/21 18:46	10
Manganese	**21.0**		1.96	0.250	mg/Kg		10/12/21 10:43	10/12/21 18:46	10
Lead	**2.12**		1.96	0.190	mg/Kg		10/12/21 10:43	10/12/21 18:46	10
Antimony	0.117	U	1.96	0.117	mg/Kg		10/12/21 10:43	10/12/21 18:46	10
Selenium	0.486	U	1.96	0.486	mg/Kg		10/12/21 10:43	10/12/21 18:46	10
Thallium	0.234	U	1.96	0.234	mg/Kg		10/12/21 10:43	10/12/21 18:46	10
Uranium	**0.0912**	**J**	0.980	0.0586	mg/Kg		10/12/21 10:43	10/12/21 18:46	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-47-S-3-4-211005 Lab Sample ID: 860-13162-3
Date Collected: 10/05/21 11:05 **Matrix: Solid**
Date Received: 10/06/21 11:03

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**5.83**		3.92	0.434	mg/Kg		10/12/21 10:43	10/13/21 11:29	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00356	U	0.0185	0.00356	mg/Kg		10/07/21 12:20	10/07/21 14:17	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		10/19/21 13:27	10/19/21 15:27	1
Phenols, Total	0.0557	U	0.0928	0.0557	mg/Kg		10/21/21 08:30	10/22/21 10:40	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.5**				SU			10/07/21 11:40	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			10/21/21 15:00	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	**0.428**		0.148	0.155	1.00	0.129	pCi/g	10/11/21 10:41	11/05/21 07:57	1
Radium-228	0.0629	U	0.367	0.367		0.427	pCi/g	10/11/21 10:41	11/05/21 07:57	1
Combined Radium 226 + 228	**0.491**		0.396	0.398		0.427	pCi/g	10/11/21 10:41	11/05/21 07:57	1

Client Sample ID: Cell20-47-S-3-4-211005 Lab Sample ID: 860-13162-3
Date Collected: 10/05/21 11:05 **Matrix: Solid**
Date Received: 10/06/21 11:03 **Percent Solids: 94.2**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00265	U	0.00531	0.00265	mg/Kg	☼	10/11/21 11:34	10/19/21 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*	*10/11/21 11:34*	*10/19/21 11:35*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00419	U	0.0177	0.00419	mg/Kg	☼	10/11/21 10:23	10/13/21 00:36	1
Aroclor 1221	0.00419	U	0.0177	0.00419	mg/Kg	☼	10/11/21 10:23	10/13/21 00:36	1
Aroclor 1232	0.00419	U	0.0177	0.00419	mg/Kg	☼	10/11/21 10:23	10/13/21 00:36	1
Aroclor 1242	0.00419	U	0.0177	0.00419	mg/Kg	☼	10/11/21 10:23	10/13/21 00:36	1
Aroclor 1248	0.00419	U	0.0177	0.00419	mg/Kg	☼	10/11/21 10:23	10/13/21 00:36	1
Aroclor 1254	0.00276	U	0.0177	0.00276	mg/Kg	☼	10/11/21 10:23	10/13/21 00:36	1
Aroclor 1260	0.00276	U	0.0177	0.00276	mg/Kg	☼	10/11/21 10:23	10/13/21 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*35 - 140*	*10/11/21 10:23*	*10/13/21 00:36*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*37 - 142*	*10/11/21 10:23*	*10/13/21 00:36*	*1*

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Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell20-51-S-3-4-211005

Date Collected: 10/05/21 11:25
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-4

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.686	U	4.70	0.686	ug/Kg			10/12/21 14:06	1
Chloromethane	1.13	U	4.70	1.13	ug/Kg			10/12/21 14:06	1
Vinyl chloride	0.564	U	4.70	0.564	ug/Kg			10/12/21 14:06	1
Bromomethane	1.03	U	4.70	1.03	ug/Kg			10/12/21 14:06	1
Trichlorofluoromethane	0.470	U	4.70	0.470	ug/Kg			10/12/21 14:06	1
Acrolein	8.08	U	47.0	8.08	ug/Kg			10/12/21 14:06	1
1,1-Dichloroethene	0.470	U	4.70	0.470	ug/Kg			10/12/21 14:06	1
trans-1,2-Dichloroethene	0.470	U	4.70	0.470	ug/Kg			10/12/21 14:06	1
Methyl tert-butyl ether	0.573	U	4.70	0.573	ug/Kg			10/12/21 14:06	1
1,3-Dichlorobenzene	0.291	U	4.70	0.291	ug/Kg			10/12/21 14:06	1
Methylene Chloride	4.70	U	23.5	4.70	ug/Kg			10/12/21 14:06	1
Acrylonitrile	3.38	U	47.0	3.38	ug/Kg			10/12/21 14:06	1
cis-1,2-Dichloroethene	0.536	U	4.70	0.536	ug/Kg			10/12/21 14:06	1
Carbon tetrachloride	0.479	U	4.70	0.479	ug/Kg			10/12/21 14:06	1
Benzene	0.592	U	4.70	0.592	ug/Kg			10/12/21 14:06	1
1,2-Dichloroethane	0.489	U	4.70	0.489	ug/Kg			10/12/21 14:06	1
Trichloroethene	0.263	U	4.70	0.263	ug/Kg			10/12/21 14:06	1
1,1,1-Trichloroethane	0.470	U	4.70	0.470	ug/Kg			10/12/21 14:06	1
1,1-Dichloroethane	0.555	U	4.70	0.555	ug/Kg			10/12/21 14:06	1
1,2-Dichloropropane	0.470	U	4.70	0.470	ug/Kg			10/12/21 14:06	1
1,4-Dioxane	17.9	U	94.0	17.9	ug/Kg			10/12/21 14:06	1
Chloroform	0.818	U	4.70	0.818	ug/Kg			10/12/21 14:06	1
Bromodichloromethane	0.188	U	4.70	0.188	ug/Kg			10/12/21 14:06	1
1,1-Dichloropropene	0.489	U	4.70	0.489	ug/Kg			10/12/21 14:06	1
cis-1,3-Dichloropropene	0.423	U	4.70	0.423	ug/Kg			10/12/21 14:06	1
Toluene	0.846	U	4.70	0.846	ug/Kg			10/12/21 14:06	1
trans-1,3-Dichloropropene	0.489	U	4.70	0.489	ug/Kg			10/12/21 14:06	1
1,1,2-Trichloroethane	0.470	U	4.70	0.470	ug/Kg			10/12/21 14:06	1
Tetrachloroethene	0.695	U	4.70	0.695	ug/Kg			10/12/21 14:06	1
1,3-Dichloropropene, Total	0.489	U	4.70	0.489	ug/Kg			10/12/21 14:06	1
1,2-Dibromoethane	0.282	U	4.70	0.282	ug/Kg			10/12/21 14:06	1
Monochlorobenzene	0.282	U	4.70	0.282	ug/Kg			10/12/21 14:06	1
Ethylbenzene	0.423	U	4.70	0.423	ug/Kg			10/12/21 14:06	1
Xylenes, Total	**0.744**	**J**	9.40	0.470	ug/Kg			10/12/21 14:06	1
Styrene	0.282	U	4.70	0.282	ug/Kg			10/12/21 14:06	1
Tribromomethane	0.479	U	4.70	0.479	ug/Kg			10/12/21 14:06	1
1,1,2,2-Tetrachloroethane	0.357	U	4.70	0.357	ug/Kg			10/12/21 14:06	1
1,4-Dichlorobenzene	0.301	U	4.70	0.301	ug/Kg			10/12/21 14:06	1
1,2-Dichlorobenzene	0.235	U	4.70	0.235	ug/Kg			10/12/21 14:06	1
1,2,4-Trichlorobenzene	0.912	U	4.70	0.912	ug/Kg			10/12/21 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 152*		*10/12/21 14:06*	*1*
Toluene-d8 (Surr)	*100*		*65 - 139*		*10/12/21 14:06*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 136*		*10/12/21 14:06*	*1*
4-Bromofluorobenzene (Surr)	*100*		*61 - 142*		*10/12/21 14:06*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	23.2	U	128	23.2	ug/Kg		10/19/21 16:25	10/23/21 16:09	2

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Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell20-51-S-3-4-211005

Date Collected: 10/05/21 11:25
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-4

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*124*		*30 - 164*	*10/19/21 16:25*	*10/23/21 16:09*	*2*

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		10/11/21 09:18	10/11/21 22:02	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
bis (2-chloroisopropyl) ether	17.8	U	166	17.8	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
2,6-Dinitrotoluene	23.3	U	166	23.3	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Anthracene	13.8	U	166	13.8	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Chrysene	16.5	U	166	16.5	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Dimethyl phthalate	15.9	U	166	15.9	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Fluorene	13.8	U	166	13.8	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Hexachloroethane	17.3	U	166	17.3	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Isophorone	14.5	U	166	14.5	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Pyrene	14.6	U	166	14.6	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Naphthalene	15.6	U	166	15.6	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		10/11/21 09:18	10/11/21 22:02	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-51-S-3-4-211005 Lab Sample ID: 860-13162-4

Date Collected: 10/05/21 11:25 **Matrix: Solid**
Date Received: 10/06/21 11:03

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	18.5	U	166	18.5	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		10/11/21 09:18	10/11/21 22:02	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/11/21 09:18	10/11/21 22:02	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	333	332	ug/Kg		10/11/21 09:18	10/11/21 22:02	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*	*10/11/21 09:18*	*10/11/21 22:02*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*30 - 115*	*10/11/21 09:18*	*10/11/21 22:02*	*1*
2-Fluorophenol	*61*		*25 - 121*	*10/11/21 09:18*	*10/11/21 22:02*	*1*
2,4,6-Tribromophenol	*81*		*19 - 122*	*10/11/21 09:18*	*10/11/21 22:02*	*1*
Nitrobenzene-d5	*63*		*23 - 129*	*10/11/21 09:18*	*10/11/21 22:02*	*1*
Phenol-d5 (Surr)	*66*		*24 - 113*	*10/11/21 09:18*	*10/11/21 22:02*	*1*
p-Terphenyl-d14 (Surr)	*88*		*18 - 137*	*10/11/21 09:18*	*10/11/21 22:02*	*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	21.4	U	50.8	21.4	mg/Kg		10/07/21 11:41	10/07/21 20:42	1
Diesel Range Organics (Over C10-C28)	21.4	U	50.8	21.4	mg/Kg		10/07/21 11:41	10/07/21 20:42	1
Oil Range Organics (Over C28-C36)	21.4	U	50.8	21.4	mg/Kg		10/07/21 11:41	10/07/21 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*99*		*65 - 130*	*10/07/21 11:41*	*10/07/21 20:42*	*1*
1-Chlorooctane	*88*		*65 - 130*	*10/07/21 11:41*	*10/07/21 20:42*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	3.00	0.254	ug/Kg		10/11/21 10:23	10/14/21 13:33	1
Aldrin	0.363	U	3.00	0.363	ug/Kg		10/11/21 10:23	10/14/21 13:33	1
Hexachlorocyclohexane, alpha-	0.680	U	3.00	0.680	ug/Kg		10/11/21 10:23	10/14/21 13:33	1
Hexachlorocyclohexane, beta-	0.473	U	3.00	0.473	ug/Kg		10/11/21 10:23	10/14/21 13:33	1
Chlordane (technical)	23.9	U	82.9	23.9	ug/Kg		10/11/21 10:23	10/14/21 13:33	1
Hexachlorocyclohexane, delta-	0.833	U	3.00	0.833	ug/Kg		10/11/21 10:23	10/14/21 13:33	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/11/21 10:23	10/14/21 13:33	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/11/21 10:23	10/14/21 13:33	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/11/21 10:23	10/14/21 13:33	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/11/21 10:23	10/14/21 13:33	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/11/21 10:23	10/14/21 13:33	1
Endrin aldehyde	0.247	U *	3.00	0.247	ug/Kg		10/11/21 10:23	10/14/21 13:33	1
Hexachlorocyclohexane, gamma-	0.438	U	3.00	0.438	ug/Kg		10/11/21 10:23	10/14/21 13:33	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/11/21 10:23	10/14/21 13:33	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/11/21 10:23	10/14/21 13:33	1
Toxaphene	11.3	U	82.9	11.3	ug/Kg		10/11/21 10:23	10/14/21 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*35 - 135*	*10/11/21 10:23*	*10/14/21 13:33*	*1*

Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell20-51-S-3-4-211005

Date Collected: 10/05/21 11:25
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-4

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	121		25 - 143	10/11/21 10:23	10/14/21 13:33	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	0.0218	U	0.0961	0.0218	mg/Kg		10/14/21 18:05	10/16/21 12:19	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0413	U	0.192	0.0413	mg/Kg		10/14/21 18:05	10/16/21 12:19	1
2,4,6-Trinitrotoluene	0.0295	U	0.0961	0.0295	mg/Kg		10/14/21 18:05	10/16/21 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	103		83 - 122	10/14/21 18:05	10/16/21 12:19	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.1**		10.1	3.56	mg/Kg		10/07/21 16:10	10/08/21 01:16	1
Nitrate as N	**5.52**		1.01	0.109	mg/Kg		10/07/21 16:10	10/08/21 01:16	1
Fluoride	**1.97**	**J**	5.03	1.01	mg/Kg		10/07/21 16:10	10/08/21 01:16	1
Nitrite as N	**0.752**	**J**	1.01	0.0503	mg/Kg		10/07/21 16:10	10/08/21 01:16	1
Nitrate Nitrite as N	**6.27**	**b**	1.01	0.00503	mg/Kg		10/07/21 16:10	10/08/21 01:16	1
Sulfate	**94.6**		10.1	4.35	mg/Kg		10/07/21 16:10	10/08/21 01:16	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0806	U	0.489	0.0806	ug/Kg		10/11/21 13:18	10/12/21 14:28	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.226	U	0.787	0.226	ug/Kg		10/13/21 10:29	10/15/21 10:10	1
Perfluorohexanesulfonic acid (PFHxS)	0.276	U	0.787	0.276	ug/Kg		10/13/21 10:29	10/15/21 10:10	1
Perfluorooctanesulfonic acid (PFOS)	0.138	U	0.787	0.138	ug/Kg		10/13/21 10:29	10/15/21 10:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	101		57 - 153	10/13/21 10:29	10/15/21 10:10	1
13C8 PFOS	102		70 - 130	10/13/21 10:29	10/15/21 10:10	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.156	U	1.96	0.156	mg/Kg		10/12/21 10:43	10/12/21 18:49	10
Arsenic	**2.09**	**J**	3.92	0.605	mg/Kg		10/12/21 10:43	10/12/21 18:49	10
Barium	**73.5**		3.92	0.340	mg/Kg		10/12/21 10:43	10/12/21 18:49	10
Beryllium	**0.245**	**J**	1.96	0.181	mg/Kg		10/12/21 10:43	10/12/21 18:49	10
Cadmium	0.114	U	1.96	0.114	mg/Kg		10/12/21 10:43	10/12/21 18:49	10
Chromium	**4.88**		3.92	0.266	mg/Kg		10/12/21 10:43	10/12/21 18:49	10
Copper	**3.01**	**J**	3.92	0.256	mg/Kg		10/12/21 10:43	10/12/21 18:49	10
Iron	**4370**		19.6	2.30	mg/Kg		10/12/21 10:43	10/12/21 18:49	10
Manganese	**52.4**		1.96	0.250	mg/Kg		10/12/21 10:43	10/12/21 18:49	10
Lead	**3.03**		1.96	0.190	mg/Kg		10/12/21 10:43	10/12/21 18:49	10
Antimony	**0.174**	**J**	1.96	0.117	mg/Kg		10/12/21 10:43	10/12/21 18:49	10
Selenium	0.486	U	1.96	0.486	mg/Kg		10/12/21 10:43	10/12/21 18:49	10
Thallium	0.234	U	1.96	0.234	mg/Kg		10/12/21 10:43	10/12/21 18:49	10
Uranium	**0.196**	**J**	0.980	0.0586	mg/Kg		10/12/21 10:43	10/12/21 18:49	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-51-S-3-4-211005 Lab Sample ID: 860-13162-4
Date Collected: 10/05/21 11:25 **Matrix: Solid**
Date Received: 10/06/21 11:03

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**16.1**		3.92	0.434	mg/Kg		10/12/21 10:43	10/13/21 11:37	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00363	U	0.0189	0.00363	mg/Kg		10/07/21 12:20	10/07/21 14:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.8	U	60.0	29.8	ug/Kg		10/19/21 13:27	10/19/21 15:29	1
Phenols, Total	0.0564	U	0.0941	0.0564	mg/Kg		10/21/21 08:30	10/22/21 10:42	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.9**				SU			10/07/21 11:40	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**160**		10.0	10.0	mg/L			10/21/21 15:00	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	**0.471**		0.113	0.123	1.00	0.0542	pCi/g	10/11/21 10:41	11/05/21 07:25	1
Radium-228	**0.408**		0.154	0.160		0.107	pCi/g	10/11/21 10:41	11/05/21 07:25	1
Combined Radium 226 + 228	**0.879**		0.191	0.202		0.107	pCi/g	10/11/21 10:41	11/05/21 07:25	1

Client Sample ID: Cell20-51-S-3-4-211005 Lab Sample ID: 860-13162-4
Date Collected: 10/05/21 11:25 **Matrix: Solid**
Date Received: 10/06/21 11:03 **Percent Solids: 76.5**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00323	U	0.00647	0.00323	mg/Kg	☼	10/11/21 11:34	10/19/21 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*63 - 144*	*10/11/21 11:34*	*10/19/21 11:52*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00516	U	0.0218	0.00516	mg/Kg	☼	10/11/21 10:23	10/13/21 01:04	1
Aroclor 1221	0.00516	U	0.0218	0.00516	mg/Kg	☼	10/11/21 10:23	10/13/21 01:04	1
Aroclor 1232	0.00516	U	0.0218	0.00516	mg/Kg	☼	10/11/21 10:23	10/13/21 01:04	1
Aroclor 1242	0.00516	U	0.0218	0.00516	mg/Kg	☼	10/11/21 10:23	10/13/21 01:04	1
Aroclor 1248	0.00516	U	0.0218	0.00516	mg/Kg	☼	10/11/21 10:23	10/13/21 01:04	1
Aroclor 1254	0.00340	U	0.0218	0.00340	mg/Kg	☼	10/11/21 10:23	10/13/21 01:04	1
Aroclor 1260	0.00340	U	0.0218	0.00340	mg/Kg	☼	10/11/21 10:23	10/13/21 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*35 - 140*	*10/11/21 10:23*	*10/13/21 01:04*	*1*
DCB Decachlorobiphenyl (Surr)	*106*		*37 - 142*	*10/11/21 10:23*	*10/13/21 01:04*	*1*

Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell19-104-S-3-4-211005

Date Collected: 10/05/21 12:57
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-5

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.702	U	4.81	0.702	ug/Kg			10/12/21 14:31	1
Chloromethane	1.15	U	4.81	1.15	ug/Kg			10/12/21 14:31	1
Vinyl chloride	0.577	U	4.81	0.577	ug/Kg			10/12/21 14:31	1
Bromomethane	1.06	U	4.81	1.06	ug/Kg			10/12/21 14:31	1
Trichlorofluoromethane	0.481	U	4.81	0.481	ug/Kg			10/12/21 14:31	1
Acrolein	8.27	U	48.1	8.27	ug/Kg			10/12/21 14:31	1
1,1-Dichloroethene	0.481	U	4.81	0.481	ug/Kg			10/12/21 14:31	1
trans-1,2-Dichloroethene	0.481	U	4.81	0.481	ug/Kg			10/12/21 14:31	1
Methyl tert-butyl ether	0.587	U	4.81	0.587	ug/Kg			10/12/21 14:31	1
1,3-Dichlorobenzene	0.298	U	4.81	0.298	ug/Kg			10/12/21 14:31	1
Methylene Chloride	4.81	U	24.0	4.81	ug/Kg			10/12/21 14:31	1
Acrylonitrile	3.46	U	48.1	3.46	ug/Kg			10/12/21 14:31	1
cis-1,2-Dichloroethene	0.548	U	4.81	0.548	ug/Kg			10/12/21 14:31	1
Carbon tetrachloride	0.490	U	4.81	0.490	ug/Kg			10/12/21 14:31	1
Benzene	0.606	U	4.81	0.606	ug/Kg			10/12/21 14:31	1
1,2-Dichloroethane	0.500	U	4.81	0.500	ug/Kg			10/12/21 14:31	1
Trichloroethene	0.269	U	4.81	0.269	ug/Kg			10/12/21 14:31	1
1,1,1-Trichloroethane	0.481	U	4.81	0.481	ug/Kg			10/12/21 14:31	1
1,1-Dichloroethane	0.567	U	4.81	0.567	ug/Kg			10/12/21 14:31	1
1,2-Dichloropropane	0.481	U	4.81	0.481	ug/Kg			10/12/21 14:31	1
1,4-Dioxane	18.3	U	96.2	18.3	ug/Kg			10/12/21 14:31	1
Chloroform	0.837	U	4.81	0.837	ug/Kg			10/12/21 14:31	1
Bromodichloromethane	0.192	U	4.81	0.192	ug/Kg			10/12/21 14:31	1
1,1-Dichloropropene	0.500	U	4.81	0.500	ug/Kg			10/12/21 14:31	1
cis-1,3-Dichloropropene	0.433	U	4.81	0.433	ug/Kg			10/12/21 14:31	1
Toluene	0.865	U	4.81	0.865	ug/Kg			10/12/21 14:31	1
trans-1,3-Dichloropropene	0.500	U	4.81	0.500	ug/Kg			10/12/21 14:31	1
1,1,2-Trichloroethane	0.481	U	4.81	0.481	ug/Kg			10/12/21 14:31	1
Tetrachloroethene	0.712	U	4.81	0.712	ug/Kg			10/12/21 14:31	1
1,3-Dichloropropene, Total	0.500	U	4.81	0.500	ug/Kg			10/12/21 14:31	1
1,2-Dibromoethane	0.288	U	4.81	0.288	ug/Kg			10/12/21 14:31	1
Monochlorobenzene	0.288	U	4.81	0.288	ug/Kg			10/12/21 14:31	1
Ethylbenzene	0.433	U	4.81	0.433	ug/Kg			10/12/21 14:31	1
Xylenes, Total	0.481	U	9.62	0.481	ug/Kg			10/12/21 14:31	1
Styrene	0.288	U	4.81	0.288	ug/Kg			10/12/21 14:31	1
Tribromomethane	0.490	U	4.81	0.490	ug/Kg			10/12/21 14:31	1
1,1,2,2-Tetrachloroethane	0.365	U	4.81	0.365	ug/Kg			10/12/21 14:31	1
1,4-Dichlorobenzene	0.308	U	4.81	0.308	ug/Kg			10/12/21 14:31	1
1,2-Dichlorobenzene	0.240	U	4.81	0.240	ug/Kg			10/12/21 14:31	1
1,2,4-Trichlorobenzene	0.933	U	4.81	0.933	ug/Kg			10/12/21 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 152*		*10/12/21 14:31*	*1*
Toluene-d8 (Surr)	*101*		*65 - 139*		*10/12/21 14:31*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 136*		*10/12/21 14:31*	*1*
4-Bromofluorobenzene (Surr)	*104*		*61 - 142*		*10/12/21 14:31*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	23.8	U	131	23.8	ug/Kg		10/19/21 16:25	10/25/21 23:00	2

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Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell19-104-S-3-4-211005

Date Collected: 10/05/21 12:57
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-5

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	99		30 - 164	10/19/21 16:25	10/25/21 23:00	2

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		10/11/21 09:18	10/11/21 22:22	1
1,2,4,5-Tetrachlorobenzene	16.5	U	166	16.5	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
1-Methylnaphthalene	26.7	U	166	26.7	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
bis (2-chloroisopropyl) ether	17.8	U	166	17.8	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
2,6-Dinitrotoluene	23.3	U	166	23.3	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Anthracene	13.8	U	166	13.8	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Acenaphthylene	14.8	U	166	14.8	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Benzo[b]fluoranthene	**18.1**	**J**	166	12.6	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Chrysene	16.5	U	166	16.5	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Dimethyl phthalate	15.9	U	166	15.9	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Fluorene	13.8	U	166	13.8	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Hexachloroethane	17.3	U	166	17.3	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Isophorone	14.5	U	166	14.5	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Phenanthrene	16.6	U	166	16.6	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Pyrene	14.6	U	166	14.6	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Naphthalene	15.6	U	166	15.6	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		10/11/21 09:18	10/11/21 22:22	1

Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell19-104-S-3-4-211005

Date Collected: 10/05/21 12:57
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-5

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	18.5	U	166	18.5	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		10/11/21 09:18	10/11/21 22:22	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/11/21 09:18	10/11/21 22:22	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/11/21 09:18	10/11/21 22:22	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*	*10/11/21 09:18*	*10/11/21 22:22*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*30 - 115*	*10/11/21 09:18*	*10/11/21 22:22*	*1*
2-Fluorophenol	*70*		*25 - 121*	*10/11/21 09:18*	*10/11/21 22:22*	*1*
2,4,6-Tribromophenol	*78*		*19 - 122*	*10/11/21 09:18*	*10/11/21 22:22*	*1*
Nitrobenzene-d5	*68*		*23 - 129*	*10/11/21 09:18*	*10/11/21 22:22*	*1*
Phenol-d5 (Surr)	*70*		*24 - 113*	*10/11/21 09:18*	*10/11/21 22:22*	*1*
p-Terphenyl-d14 (Surr)	*78*		*18 - 137*	*10/11/21 09:18*	*10/11/21 22:22*	*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	20.9	U	49.5	20.9	mg/Kg		10/07/21 11:41	10/07/21 20:59	1
Diesel Range Organics (Over C10-C28)	20.9	U	49.5	20.9	mg/Kg		10/07/21 11:41	10/07/21 20:59	1
Oil Range Organics (Over C28-C36)	20.9	U	49.5	20.9	mg/Kg		10/07/21 11:41	10/07/21 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*98*		*65 - 130*	*10/07/21 11:41*	*10/07/21 20:59*	*1*
1-Chlorooctane	*90*		*65 - 130*	*10/07/21 11:41*	*10/07/21 20:59*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	3.00	0.254	ug/Kg		10/11/21 10:23	10/14/21 13:49	1
Aldrin	0.363	U	3.00	0.363	ug/Kg		10/11/21 10:23	10/14/21 13:49	1
Hexachlorocyclohexane, alpha-	0.680	U	3.00	0.680	ug/Kg		10/11/21 10:23	10/14/21 13:49	1
Hexachlorocyclohexane, beta-	0.473	U	3.00	0.473	ug/Kg		10/11/21 10:23	10/14/21 13:49	1
Chlordane (technical)	23.9	U	82.9	23.9	ug/Kg		10/11/21 10:23	10/14/21 13:49	1
Hexachlorocyclohexane, delta-	0.833	U	3.00	0.833	ug/Kg		10/11/21 10:23	10/14/21 13:49	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/11/21 10:23	10/14/21 13:49	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/11/21 10:23	10/14/21 13:49	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/11/21 10:23	10/14/21 13:49	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/11/21 10:23	10/14/21 13:49	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/11/21 10:23	10/14/21 13:49	1
Endrin aldehyde	0.247	U *	3.00	0.247	ug/Kg		10/11/21 10:23	10/14/21 13:49	1
Hexachlorocyclohexane, gamma-	0.438	U	3.00	0.438	ug/Kg		10/11/21 10:23	10/14/21 13:49	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/11/21 10:23	10/14/21 13:49	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/11/21 10:23	10/14/21 13:49	1
Toxaphene	11.3	U	82.9	11.3	ug/Kg		10/11/21 10:23	10/14/21 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*35 - 135*	*10/11/21 10:23*	*10/14/21 13:49*	*1*

Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell19-104-S-3-4-211005

Date Collected: 10/05/21 12:57
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-5

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	132		25 - 143	10/11/21 10:23	10/14/21 13:49	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	0.0213	U	0.0940	0.0213	mg/Kg		10/14/21 18:05	10/15/21 21:57	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0404	U	0.188	0.0404	mg/Kg		10/14/21 18:05	10/15/21 21:57	1
2,4,6-Trinitrotoluene	0.0289	U	0.0940	0.0289	mg/Kg		10/14/21 18:05	10/15/21 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	103		83 - 122	10/14/21 18:05	10/15/21 21:57	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.70**	**J**	9.94	3.52	mg/Kg		10/07/21 16:10	10/08/21 01:27	1
Nitrate as N	**3.15**		0.994	0.107	mg/Kg		10/07/21 16:10	10/08/21 01:27	1
Fluoride	**2.90**	**J**	4.97	0.994	mg/Kg		10/07/21 16:10	10/08/21 01:27	1
Nitrite as N	**0.648**	**J**	0.994	0.0497	mg/Kg		10/07/21 16:10	10/08/21 01:27	1
Nitrate Nitrite as N	**3.80**	**b**	0.994	0.00497	mg/Kg		10/07/21 16:10	10/08/21 01:27	1
Sulfate	**72.1**		9.94	4.29	mg/Kg		10/07/21 16:10	10/08/21 01:27	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.111**	**J**	0.466	0.0767	ug/Kg		10/11/21 13:18	10/12/21 14:33	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.224	U	0.780	0.224	ug/Kg		10/13/21 10:29	10/15/21 10:19	1
Perfluorohexanesulfonic acid (PFHxS)	0.273	U	0.780	0.273	ug/Kg		10/13/21 10:29	10/15/21 10:19	1
Perfluorooctanesulfonic acid (PFOS)	0.137	U	0.780	0.137	ug/Kg		10/13/21 10:29	10/15/21 10:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	100		57 - 153	10/13/21 10:29	10/15/21 10:19	1
13C8 PFOS	100		70 - 130	10/13/21 10:29	10/15/21 10:19	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		10/12/21 10:43	10/12/21 18:52	10
Arsenic	**2.33**	**J**	3.70	0.571	mg/Kg		10/12/21 10:43	10/12/21 18:52	10
Barium	**168**		3.70	0.321	mg/Kg		10/12/21 10:43	10/12/21 18:52	10
Beryllium	**0.215**	**J**	1.85	0.171	mg/Kg		10/12/21 10:43	10/12/21 18:52	10
Cadmium	0.107	U	1.85	0.107	mg/Kg		10/12/21 10:43	10/12/21 18:52	10
Chromium	**3.89**		3.70	0.251	mg/Kg		10/12/21 10:43	10/12/21 18:52	10
Copper	**2.28**	**J**	3.70	0.242	mg/Kg		10/12/21 10:43	10/12/21 18:52	10
Iron	**3230**		18.5	2.17	mg/Kg		10/12/21 10:43	10/12/21 18:52	10
Manganese	**47.1**		1.85	0.236	mg/Kg		10/12/21 10:43	10/12/21 18:52	10
Lead	**3.00**		1.85	0.179	mg/Kg		10/12/21 10:43	10/12/21 18:52	10
Antimony	0.110	U	1.85	0.110	mg/Kg		10/12/21 10:43	10/12/21 18:52	10
Selenium	0.459	U	1.85	0.459	mg/Kg		10/12/21 10:43	10/12/21 18:52	10
Thallium	0.221	U	1.85	0.221	mg/Kg		10/12/21 10:43	10/12/21 18:52	10
Uranium	**0.206**	**J**	0.926	0.0554	mg/Kg		10/12/21 10:43	10/12/21 18:52	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-104-S-3-4-211005 Lab Sample ID: 860-13162-5
Date Collected: 10/05/21 12:57 **Matrix: Solid**
Date Received: 10/06/21 11:03

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**11.1**		3.70	0.410	mg/Kg		10/12/21 10:43	10/13/21 11:39	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00370	U	0.0192	0.00370	mg/Kg		10/07/21 12:20	10/07/21 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.8	U	60.1	29.8	ug/Kg		10/19/21 13:27	10/19/21 15:30	1
Phenols, Total	0.0584	U	0.0973	0.0584	mg/Kg		10/21/21 08:30	10/22/21 10:45	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.1**				SU			10/07/21 11:40	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**181**		10.0	10.0	mg/L			10/21/21 15:00	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	**0.363**		0.114	0.120	1.00	0.250	pCi/g	10/11/21 10:41	11/05/21 07:58	1
Radium-228	**0.303**		0.224	0.226		0.233	pCi/g	10/11/21 10:41	11/05/21 07:58	1
Combined Radium 226 + 228	**0.666**		0.251	0.256		0.250	pCi/g	10/11/21 10:41	11/05/21 07:58	1

Client Sample ID: Cell19-104-S-3-4-211005 Lab Sample ID: 860-13162-5
Date Collected: 10/05/21 12:57 **Matrix: Solid**
Date Received: 10/06/21 11:03 **Percent Solids: 86.4**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00292	U	0.00585	0.00292	mg/Kg	☼	10/11/21 11:34	10/19/21 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*	*10/11/21 11:34*	*10/19/21 12:09*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00457	U	0.0193	0.00457	mg/Kg	☼	10/11/21 10:23	10/13/21 01:14	1
Aroclor 1221	0.00457	U	0.0193	0.00457	mg/Kg	☼	10/11/21 10:23	10/13/21 01:14	1
Aroclor 1232	0.00457	U	0.0193	0.00457	mg/Kg	☼	10/11/21 10:23	10/13/21 01:14	1
Aroclor 1242	0.00457	U	0.0193	0.00457	mg/Kg	☼	10/11/21 10:23	10/13/21 01:14	1
Aroclor 1248	0.00457	U	0.0193	0.00457	mg/Kg	☼	10/11/21 10:23	10/13/21 01:14	1
Aroclor 1254	0.00301	U	0.0193	0.00301	mg/Kg	☼	10/11/21 10:23	10/13/21 01:14	1
Aroclor 1260	0.00301	U	0.0193	0.00301	mg/Kg	☼	10/11/21 10:23	10/13/21 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*35 - 140*	*10/11/21 10:23*	*10/13/21 01:14*	*1*
DCB Decachlorobiphenyl (Surr)	*111*		*37 - 142*	*10/11/21 10:23*	*10/13/21 01:14*	*1*

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Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell19-80-S-3-4-211005

Date Collected: 10/05/21 13:17
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-6

Matrix: Solid

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			10/12/21 14:56	1
Chloromethane	1.18	U	4.91	1.18	ug/Kg			10/12/21 14:56	1
Vinyl chloride	0.589	U	4.91	0.589	ug/Kg			10/12/21 14:56	1
Bromomethane	1.08	U	4.91	1.08	ug/Kg			10/12/21 14:56	1
Trichlorofluoromethane	0.491	U	4.91	0.491	ug/Kg			10/12/21 14:56	1
Acrolein	8.45	U	49.1	8.45	ug/Kg			10/12/21 14:56	1
1,1-Dichloroethene	0.491	U	4.91	0.491	ug/Kg			10/12/21 14:56	1
trans-1,2-Dichloroethene	0.491	U	4.91	0.491	ug/Kg			10/12/21 14:56	1
Methyl tert-butyl ether	0.599	U	4.91	0.599	ug/Kg			10/12/21 14:56	1
1,3-Dichlorobenzene	0.305	U	4.91	0.305	ug/Kg			10/12/21 14:56	1
Methylene Chloride	4.91	U	24.6	4.91	ug/Kg			10/12/21 14:56	1
Acrylonitrile	3.54	U	49.1	3.54	ug/Kg			10/12/21 14:56	1
cis-1,2-Dichloroethene	0.560	U	4.91	0.560	ug/Kg			10/12/21 14:56	1
Carbon tetrachloride	0.501	U	4.91	0.501	ug/Kg			10/12/21 14:56	1
Benzene	0.619	U	4.91	0.619	ug/Kg			10/12/21 14:56	1
1,2-Dichloroethane	0.511	U	4.91	0.511	ug/Kg			10/12/21 14:56	1
Trichloroethene	0.275	U	4.91	0.275	ug/Kg			10/12/21 14:56	1
1,1,1-Trichloroethane	0.491	U	4.91	0.491	ug/Kg			10/12/21 14:56	1
1,1-Dichloroethane	0.580	U	4.91	0.580	ug/Kg			10/12/21 14:56	1
1,2-Dichloropropane	0.491	U	4.91	0.491	ug/Kg			10/12/21 14:56	1
1,4-Dioxane	18.7	U	98.2	18.7	ug/Kg			10/12/21 14:56	1
Chloroform	0.855	U	4.91	0.855	ug/Kg			10/12/21 14:56	1
Bromodichloromethane	0.196	U	4.91	0.196	ug/Kg			10/12/21 14:56	1
1,1-Dichloropropene	0.511	U	4.91	0.511	ug/Kg			10/12/21 14:56	1
cis-1,3-Dichloropropene	0.442	U	4.91	0.442	ug/Kg			10/12/21 14:56	1
Toluene	0.884	U	4.91	0.884	ug/Kg			10/12/21 14:56	1
trans-1,3-Dichloropropene	0.511	U	4.91	0.511	ug/Kg			10/12/21 14:56	1
1,1,2-Trichloroethane	0.491	U	4.91	0.491	ug/Kg			10/12/21 14:56	1
Tetrachloroethene	0.727	U	4.91	0.727	ug/Kg			10/12/21 14:56	1
1,3-Dichloropropene, Total	0.511	U	4.91	0.511	ug/Kg			10/12/21 14:56	1
1,2-Dibromoethane	0.295	U	4.91	0.295	ug/Kg			10/12/21 14:56	1
Monochlorobenzene	0.295	U	4.91	0.295	ug/Kg			10/12/21 14:56	1
Ethylbenzene	0.442	U	4.91	0.442	ug/Kg			10/12/21 14:56	1
Xylenes, Total	0.491	U	9.82	0.491	ug/Kg			10/12/21 14:56	1
Styrene	0.295	U	4.91	0.295	ug/Kg			10/12/21 14:56	1
Tribromomethane	0.501	U	4.91	0.501	ug/Kg			10/12/21 14:56	1
1,1,2,2-Tetrachloroethane	0.373	U	4.91	0.373	ug/Kg			10/12/21 14:56	1
1,4-Dichlorobenzene	0.314	U	4.91	0.314	ug/Kg			10/12/21 14:56	1
1,2-Dichlorobenzene	0.246	U	4.91	0.246	ug/Kg			10/12/21 14:56	1
1,2,4-Trichlorobenzene	0.953	U	4.91	0.953	ug/Kg			10/12/21 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 152*		*10/12/21 14:56*	*1*
Toluene-d8 (Surr)	*99*		*65 - 139*		*10/12/21 14:56*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 136*		*10/12/21 14:56*	*1*
4-Bromofluorobenzene (Surr)	*101*		*61 - 142*		*10/12/21 14:56*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	24.0	U	132	24.0	ug/Kg		10/19/21 16:25	10/25/21 23:27	2

Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell19-80-S-3-4-211005

Date Collected: 10/05/21 13:17
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-6

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*93*		*30 - 164*	*10/19/21 16:25*	*10/25/21 23:27*	*2*

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		10/11/21 09:18	10/11/21 22:42	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
bis (2-chloroisopropyl) ether	17.8	U	166	17.8	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
2,6-Dinitrotoluene	23.3	U	166	23.3	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Anthracene	13.8	U	166	13.8	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Chrysene	16.5	U	166	16.5	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Dimethyl phthalate	15.9	U	166	15.9	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Fluorene	13.8	U	166	13.8	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Hexachloroethane	17.3	U	166	17.3	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Isophorone	14.5	U	166	14.5	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Pyrene	14.6	U	166	14.6	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Naphthalene	15.6	U	166	15.6	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		10/11/21 09:18	10/11/21 22:42	1

Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell19-80-S-3-4-211005

Date Collected: 10/05/21 13:17
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-6

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	18.5	U	166	18.5	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		10/11/21 09:18	10/11/21 22:42	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/11/21 09:18	10/11/21 22:42	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	333	332	ug/Kg		10/11/21 09:18	10/11/21 22:42	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*	*10/11/21 09:18*	*10/11/21 22:42*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*30 - 115*	*10/11/21 09:18*	*10/11/21 22:42*	*1*
2-Fluorophenol	*86*		*25 - 121*	*10/11/21 09:18*	*10/11/21 22:42*	*1*
2,4,6-Tribromophenol	*82*		*19 - 122*	*10/11/21 09:18*	*10/11/21 22:42*	*1*
Nitrobenzene-d5	*82*		*23 - 129*	*10/11/21 09:18*	*10/11/21 22:42*	*1*
Phenol-d5 (Surr)	*83*		*24 - 113*	*10/11/21 09:18*	*10/11/21 22:42*	*1*
p-Terphenyl-d14 (Surr)	*83*		*18 - 137*	*10/11/21 09:18*	*10/11/21 22:42*	*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	21.1	U	50.0	21.1	mg/Kg		10/07/21 11:41	10/08/21 10:42	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		10/07/21 11:41	10/08/21 10:42	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		10/07/21 11:41	10/08/21 10:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*105*		*65 - 130*	*10/07/21 11:41*	*10/08/21 10:42*	*1*
1-Chlorooctane	*97*		*65 - 130*	*10/07/21 11:41*	*10/08/21 10:42*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	3.00	0.253	ug/Kg		10/11/21 10:23	10/14/21 14:05	1
Aldrin	0.362	U	3.00	0.362	ug/Kg		10/11/21 10:23	10/14/21 14:05	1
Hexachlorocyclohexane, alpha-	0.679	U	3.00	0.679	ug/Kg		10/11/21 10:23	10/14/21 14:05	1
Hexachlorocyclohexane, beta-	0.473	U	3.00	0.473	ug/Kg		10/11/21 10:23	10/14/21 14:05	1
Chlordane (technical)	23.9	U	82.9	23.9	ug/Kg		10/11/21 10:23	10/14/21 14:05	1
Hexachlorocyclohexane, delta-	0.832	U	3.00	0.832	ug/Kg		10/11/21 10:23	10/14/21 14:05	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/11/21 10:23	10/14/21 14:05	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/11/21 10:23	10/14/21 14:05	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/11/21 10:23	10/14/21 14:05	1
Endosulfan sulfate	0.275	U	3.00	0.275	ug/Kg		10/11/21 10:23	10/14/21 14:05	1
Endrin	0.290	U	3.00	0.290	ug/Kg		10/11/21 10:23	10/14/21 14:05	1
Endrin aldehyde	0.247	U *	3.00	0.247	ug/Kg		10/11/21 10:23	10/14/21 14:05	1
Hexachlorocyclohexane, gamma-	0.438	U	3.00	0.438	ug/Kg		10/11/21 10:23	10/14/21 14:05	1
Heptachlor	0.561	U	3.00	0.561	ug/Kg		10/11/21 10:23	10/14/21 14:05	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/11/21 10:23	10/14/21 14:05	1
Toxaphene	11.3	U	82.9	11.3	ug/Kg		10/11/21 10:23	10/14/21 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*35 - 135*	*10/11/21 10:23*	*10/14/21 14:05*	*1*

Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell19-80-S-3-4-211005

Date Collected: 10/05/21 13:17
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-6

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	116		25 - 143	10/11/21 10:23	10/14/21 14:05	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	0.0220	U	0.0967	0.0220	mg/Kg		10/14/21 18:05	10/15/21 22:20	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0416	U	0.193	0.0416	mg/Kg		10/14/21 18:05	10/15/21 22:20	1
2,4,6-Trinitrotoluene	0.0297	U	0.0967	0.0297	mg/Kg		10/14/21 18:05	10/15/21 22:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	103		83 - 122	10/14/21 18:05	10/15/21 22:20	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.5**		9.84	3.48	mg/Kg		10/07/21 16:10	10/08/21 02:01	1
Nitrate as N	**6.07**		0.984	0.106	mg/Kg		10/07/21 16:10	10/08/21 02:01	1
Fluoride	**4.87**	**J**	4.92	0.984	mg/Kg		10/07/21 16:10	10/08/21 02:01	1
Nitrite as N	**0.735**	**J**	0.984	0.0492	mg/Kg		10/07/21 16:10	10/08/21 02:01	1
Nitrate Nitrite as N	**6.81**	**b**	0.984	0.00492	mg/Kg		10/07/21 16:10	10/08/21 02:01	1
Sulfate	**82.6**		9.84	4.25	mg/Kg		10/07/21 16:10	10/08/21 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	**0.140**	**J**	0.479	0.0789	ug/Kg		10/11/21 13:18	10/12/21 14:38	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	0.750	0.216	ug/Kg		10/13/21 10:29	10/15/21 10:28	1
Perfluorohexanesulfonic acid (PFHxS)	0.262	U	0.750	0.262	ug/Kg		10/13/21 10:29	10/15/21 10:28	1
Perfluorooctanesulfonic acid (PFOS)	0.131	U	0.750	0.131	ug/Kg		10/13/21 10:29	10/15/21 10:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	100		57 - 153	10/13/21 10:29	10/15/21 10:28	1
13C8 PFOS	101		70 - 130	10/13/21 10:29	10/15/21 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		10/12/21 10:43	10/12/21 18:55	10
Arsenic	**1.69**	**J**	3.51	0.541	mg/Kg		10/12/21 10:43	10/12/21 18:55	10
Barium	**162**		3.51	0.304	mg/Kg		10/12/21 10:43	10/12/21 18:55	10
Beryllium	0.162	U	1.75	0.162	mg/Kg		10/12/21 10:43	10/12/21 18:55	10
Cadmium	0.102	U	1.75	0.102	mg/Kg		10/12/21 10:43	10/12/21 18:55	10
Chromium	**2.84**	**J**	3.51	0.238	mg/Kg		10/12/21 10:43	10/12/21 18:55	10
Copper	**1.53**	**J**	3.51	0.229	mg/Kg		10/12/21 10:43	10/12/21 18:55	10
Iron	**2350**		17.5	2.06	mg/Kg		10/12/21 10:43	10/12/21 18:55	10
Manganese	**27.4**		1.75	0.223	mg/Kg		10/12/21 10:43	10/12/21 18:55	10
Lead	**1.66**	**J**	1.75	0.170	mg/Kg		10/12/21 10:43	10/12/21 18:55	10
Antimony	0.104	U	1.75	0.104	mg/Kg		10/12/21 10:43	10/12/21 18:55	10
Selenium	0.435	U	1.75	0.435	mg/Kg		10/12/21 10:43	10/12/21 18:55	10
Thallium	0.210	U	1.75	0.210	mg/Kg		10/12/21 10:43	10/12/21 18:55	10
Uranium	**0.221**	**J**	0.877	0.0524	mg/Kg		10/12/21 10:43	10/12/21 18:55	10

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-80-S-3-4-211005 Lab Sample ID: 860-13162-6
Date Collected: 10/05/21 13:17 **Matrix: Solid**
Date Received: 10/06/21 11:03

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**8.37**		3.51	0.388	mg/Kg		10/12/21 10:43	10/13/21 11:42	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00363	U	0.0189	0.00363	mg/Kg		10/07/21 12:20	10/07/21 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.8	U	60.2	29.8	ug/Kg		10/19/21 13:27	10/19/21 15:34	1
Phenols, Total	0.0597	U	0.0994	0.0597	mg/Kg		10/21/21 08:30	10/22/21 10:58	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.1**				SU			10/07/21 11:40	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**173**		10.0	10.0	mg/L			10/21/21 15:00	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	**0.315**		0.113	0.117	1.00	0.0859	pCi/g	10/11/21 10:41	11/05/21 08:32	1
Radium-228	**0.341**		0.144	0.148		0.109	pCi/g	10/11/21 10:41	11/05/21 08:32	1
Combined Radium 226 + 228	**0.656**		0.183	0.189		0.109	pCi/g	10/11/21 10:41	11/05/21 08:32	1

Client Sample ID: Cell19-80-S-3-4-211005 Lab Sample ID: 860-13162-6
Date Collected: 10/05/21 13:17 **Matrix: Solid**
Date Received: 10/06/21 11:03 **Percent Solids: 84.7**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00298	U	0.00597	0.00298	mg/Kg	☼	10/11/21 11:34	10/19/21 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*	*10/11/21 11:34*	*10/19/21 12:26*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00466	U	0.0197	0.00466	mg/Kg	☼	10/11/21 10:23	10/13/21 01:23	1
Aroclor 1221	0.00466	U	0.0197	0.00466	mg/Kg	☼	10/11/21 10:23	10/13/21 01:23	1
Aroclor 1232	0.00466	U	0.0197	0.00466	mg/Kg	☼	10/11/21 10:23	10/13/21 01:23	1
Aroclor 1242	0.00466	U	0.0197	0.00466	mg/Kg	☼	10/11/21 10:23	10/13/21 01:23	1
Aroclor 1248	0.00466	U	0.0197	0.00466	mg/Kg	☼	10/11/21 10:23	10/13/21 01:23	1
Aroclor 1254	0.00307	U	0.0197	0.00307	mg/Kg	☼	10/11/21 10:23	10/13/21 01:23	1
Aroclor 1260	0.00307	U	0.0197	0.00307	mg/Kg	☼	10/11/21 10:23	10/13/21 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*35 - 140*	*10/11/21 10:23*	*10/13/21 01:23*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*37 - 142*	*10/11/21 10:23*	*10/13/21 01:23*	*1*

Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell19-77-S-3-4-211005

Date Collected: 10/05/21 13:53
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-7

Matrix: Solid

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			10/12/21 15:22	1
Chloromethane	1.12	U	4.65	1.12	ug/Kg			10/12/21 15:22	1
Vinyl chloride	0.558	U	4.65	0.558	ug/Kg			10/12/21 15:22	1
Bromomethane	1.02	U	4.65	1.02	ug/Kg			10/12/21 15:22	1
Trichlorofluoromethane	0.465	U	4.65	0.465	ug/Kg			10/12/21 15:22	1
Acrolein	7.99	U	46.5	7.99	ug/Kg			10/12/21 15:22	1
1,1-Dichloroethene	0.465	U	4.65	0.465	ug/Kg			10/12/21 15:22	1
trans-1,2-Dichloroethene	0.465	U	4.65	0.465	ug/Kg			10/12/21 15:22	1
Methyl tert-butyl ether	0.567	U	4.65	0.567	ug/Kg			10/12/21 15:22	1
1,3-Dichlorobenzene	0.288	U	4.65	0.288	ug/Kg			10/12/21 15:22	1
Methylene Chloride	4.65	U	23.2	4.65	ug/Kg			10/12/21 15:22	1
Acrylonitrile	3.35	U	46.5	3.35	ug/Kg			10/12/21 15:22	1
cis-1,2-Dichloroethene	0.530	U	4.65	0.530	ug/Kg			10/12/21 15:22	1
Carbon tetrachloride	0.474	U	4.65	0.474	ug/Kg			10/12/21 15:22	1
Benzene	0.586	U	4.65	0.586	ug/Kg			10/12/21 15:22	1
1,2-Dichloroethane	0.483	U	4.65	0.483	ug/Kg			10/12/21 15:22	1
Trichloroethene	0.260	U	4.65	0.260	ug/Kg			10/12/21 15:22	1
1,1,1-Trichloroethane	0.465	U	4.65	0.465	ug/Kg			10/12/21 15:22	1
1,1-Dichloroethane	0.548	U	4.65	0.548	ug/Kg			10/12/21 15:22	1
1,2-Dichloropropane	0.465	U	4.65	0.465	ug/Kg			10/12/21 15:22	1
1,4-Dioxane	17.7	U	92.9	17.7	ug/Kg			10/12/21 15:22	1
Chloroform	0.809	U	4.65	0.809	ug/Kg			10/12/21 15:22	1
Bromodichloromethane	0.186	U	4.65	0.186	ug/Kg			10/12/21 15:22	1
1,1-Dichloropropene	0.483	U	4.65	0.483	ug/Kg			10/12/21 15:22	1
cis-1,3-Dichloropropene	0.418	U	4.65	0.418	ug/Kg			10/12/21 15:22	1
Toluene	0.836	U	4.65	0.836	ug/Kg			10/12/21 15:22	1
trans-1,3-Dichloropropene	0.483	U	4.65	0.483	ug/Kg			10/12/21 15:22	1
1,1,2-Trichloroethane	0.465	U	4.65	0.465	ug/Kg			10/12/21 15:22	1
Tetrachloroethene	0.688	U	4.65	0.688	ug/Kg			10/12/21 15:22	1
1,3-Dichloropropene, Total	0.483	U	4.65	0.483	ug/Kg			10/12/21 15:22	1
1,2-Dibromoethane	0.279	U	4.65	0.279	ug/Kg			10/12/21 15:22	1
Monochlorobenzene	0.279	U	4.65	0.279	ug/Kg			10/12/21 15:22	1
Ethylbenzene	0.418	U	4.65	0.418	ug/Kg			10/12/21 15:22	1
Xylenes, Total	0.465	U	9.29	0.465	ug/Kg			10/12/21 15:22	1
Styrene	0.279	U	4.65	0.279	ug/Kg			10/12/21 15:22	1
Tribromomethane	0.474	U	4.65	0.474	ug/Kg			10/12/21 15:22	1
1,1,2,2-Tetrachloroethane	0.353	U	4.65	0.353	ug/Kg			10/12/21 15:22	1
1,4-Dichlorobenzene	0.297	U	4.65	0.297	ug/Kg			10/12/21 15:22	1
1,2-Dichlorobenzene	0.232	U	4.65	0.232	ug/Kg			10/12/21 15:22	1
1,2,4-Trichlorobenzene	0.901	U	4.65	0.901	ug/Kg			10/12/21 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 152*		*10/12/21 15:22*	*1*
Toluene-d8 (Surr)	*98*		*65 - 139*		*10/12/21 15:22*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 136*		*10/12/21 15:22*	*1*
4-Bromofluorobenzene (Surr)	*98*		*61 - 142*		*10/12/21 15:22*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	23.9	U	131	23.9	ug/Kg		10/19/21 16:25	10/25/21 23:53	2

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Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell19-77-S-3-4-211005

Date Collected: 10/05/21 13:53
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-7

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*89*		*30 - 164*	*10/19/21 16:25*	*10/25/21 23:53*	*2*

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		10/11/21 09:18	10/11/21 23:02	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		10/11/21 09:18	10/11/21 23:02	1

Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell19-77-S-3-4-211005

Date Collected: 10/05/21 13:53
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-7

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/11/21 09:18	10/11/21 23:02	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/11/21 09:18	10/11/21 23:02	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/11/21 09:18	10/11/21 23:02	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*	*10/11/21 09:18*	*10/11/21 23:02*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*30 - 115*	*10/11/21 09:18*	*10/11/21 23:02*	*1*
2-Fluorophenol	*79*		*25 - 121*	*10/11/21 09:18*	*10/11/21 23:02*	*1*
2,4,6-Tribromophenol	*81*		*19 - 122*	*10/11/21 09:18*	*10/11/21 23:02*	*1*
Nitrobenzene-d5	*78*		*23 - 129*	*10/11/21 09:18*	*10/11/21 23:02*	*1*
Phenol-d5 (Surr)	*77*		*24 - 113*	*10/11/21 09:18*	*10/11/21 23:02*	*1*
p-Terphenyl-d14 (Surr)	*86*		*18 - 137*	*10/11/21 09:18*	*10/11/21 23:02*	*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	21.1	U	50.0	21.1	mg/Kg		10/07/21 11:41	10/07/21 21:53	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		10/07/21 11:41	10/07/21 21:53	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		10/07/21 11:41	10/07/21 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*93*		*65 - 130*	*10/07/21 11:41*	*10/07/21 21:53*	*1*
1-Chlorooctane	*84*		*65 - 130*	*10/07/21 11:41*	*10/07/21 21:53*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	3.00	0.254	ug/Kg		10/11/21 10:23	10/14/21 14:21	1
Aldrin	0.363	U	3.00	0.363	ug/Kg		10/11/21 10:23	10/14/21 14:21	1
Hexachlorocyclohexane, alpha-	0.680	U	3.00	0.680	ug/Kg		10/11/21 10:23	10/14/21 14:21	1
Hexachlorocyclohexane, beta-	0.473	U	3.00	0.473	ug/Kg		10/11/21 10:23	10/14/21 14:21	1
Chlordane (technical)	23.9	U	82.9	23.9	ug/Kg		10/11/21 10:23	10/14/21 14:21	1
Hexachlorocyclohexane, delta-	0.833	U	3.00	0.833	ug/Kg		10/11/21 10:23	10/14/21 14:21	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/11/21 10:23	10/14/21 14:21	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/11/21 10:23	10/14/21 14:21	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/11/21 10:23	10/14/21 14:21	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/11/21 10:23	10/14/21 14:21	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/11/21 10:23	10/14/21 14:21	1
Endrin aldehyde	0.247	U *	3.00	0.247	ug/Kg		10/11/21 10:23	10/14/21 14:21	1
Hexachlorocyclohexane, gamma-	0.438	U	3.00	0.438	ug/Kg		10/11/21 10:23	10/14/21 14:21	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/11/21 10:23	10/14/21 14:21	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/11/21 10:23	10/14/21 14:21	1
Toxaphene	11.3	U	82.9	11.3	ug/Kg		10/11/21 10:23	10/14/21 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*35 - 135*	*10/11/21 10:23*	*10/14/21 14:21*	*1*

Client Sample Results

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

Job ID: 860-13162-1

Client Sample ID: Cell19-77-S-3-4-211005

Date Collected: 10/05/21 13:53
Date Received: 10/06/21 11:03

Lab Sample ID: 860-13162-7

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	126		25 - 143	10/11/21 10:23	10/14/21 14:21	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	0.0210	U	0.0926	0.0210	mg/Kg		10/14/21 18:05	10/15/21 23:06	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0398	U	0.185	0.0398	mg/Kg		10/14/21 18:05	10/15/21 23:06	1
2,4,6-Trinitrotoluene	0.0284	U	0.0926	0.0284	mg/Kg		10/14/21 18:05	10/15/21 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	102		83 - 122	10/14/21 18:05	10/15/21 23:06	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.4**		9.88	3.50	mg/Kg		10/07/21 16:10	10/08/21 02:12	1
Nitrate as N	**4.93**		0.988	0.107	mg/Kg		10/07/21 16:10	10/08/21 02:12	1
Fluoride	**5.26**		4.94	0.988	mg/Kg		10/07/21 16:10	10/08/21 02:12	1
Nitrite as N	**0.592**	**J**	0.988	0.0494	mg/Kg		10/07/21 16:10	10/08/21 02:12	1
Nitrate Nitrite as N	**5.52**	**b**	0.988	0.00494	mg/Kg		10/07/21 16:10	10/08/21 02:12	1
Sulfate	**109**		9.88	4.27	mg/Kg		10/07/21 16:10	10/08/21 02:12	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.195**	**J**	0.487	0.0802	ug/Kg		10/11/21 13:18	10/12/21 14:59	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	0.795	0.229	ug/Kg		10/13/21 10:29	10/15/21 10:45	1
Perfluorohexanesulfonic acid (PFHxS)	0.278	U	0.795	0.278	ug/Kg		10/13/21 10:29	10/15/21 10:45	1
Perfluorooctanesulfonic acid (PFOS)	0.139	U	0.795	0.139	ug/Kg		10/13/21 10:29	10/15/21 10:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	99		57 - 153	10/13/21 10:29	10/15/21 10:45	1
13C8 PFOS	102		70 - 130	10/13/21 10:29	10/15/21 10:45	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		10/12/21 10:43	10/12/21 18:58	10
Arsenic	**2.18**	**J**	3.51	0.541	mg/Kg		10/12/21 10:43	10/12/21 18:58	10
Barium	**262**		3.51	0.304	mg/Kg		10/12/21 10:43	10/12/21 18:58	10
Beryllium	0.162	U	1.75	0.162	mg/Kg		10/12/21 10:43	10/12/21 18:58	10
Cadmium	0.102	U	1.75	0.102	mg/Kg		10/12/21 10:43	10/12/21 18:58	10
Chromium	**1.57**	**J**	3.51	0.238	mg/Kg		10/12/21 10:43	10/12/21 18:58	10
Copper	**1.32**	**J**	3.51	0.229	mg/Kg		10/12/21 10:43	10/12/21 18:58	10
Iron	**1260**		17.5	2.06	mg/Kg		10/12/21 10:43	10/12/21 18:58	10
Manganese	**19.1**		1.75	0.223	mg/Kg		10/12/21 10:43	10/12/21 18:58	10
Lead	**1.03**	**J**	1.75	0.170	mg/Kg		10/12/21 10:43	10/12/21 18:58	10
Antimony	0.104	U	1.75	0.104	mg/Kg		10/12/21 10:43	10/12/21 18:58	10
Selenium	0.435	U	1.75	0.435	mg/Kg		10/12/21 10:43	10/12/21 18:58	10
Thallium	0.210	U	1.75	0.210	mg/Kg		10/12/21 10:43	10/12/21 18:58	10
Uranium	**0.328**	**J**	0.877	0.0524	mg/Kg		10/12/21 10:43	10/12/21 18:58	10

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-77-S-3-4-211005 Lab Sample ID: 860-13162-7
Date Collected: 10/05/21 13:53 **Matrix: Solid**
Date Received: 10/06/21 11:03

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**5.11**		3.51	0.388	mg/Kg		10/12/21 10:43	10/13/21 11:44	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00391**	**J**	0.0182	0.00349	mg/Kg		10/07/21 12:20	10/07/21 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.8	U	60.1	29.8	ug/Kg		10/19/21 13:27	10/19/21 15:36	1
Phenols, Total	0.0598	U	0.0996	0.0598	mg/Kg		10/21/21 08:30	10/22/21 11:01	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.3**				SU			10/07/21 11:40	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**193**		10.0	10.0	mg/L			10/21/21 15:00	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	**0.590**		0.168	0.179	1.00	0.150	pCi/g	10/11/21 10:41	11/05/21 07:59	1
Radium-228	0.0843	U	0.213	0.213		0.274	pCi/g	10/11/21 10:41	11/05/21 07:59	1
Combined Radium 226 + 228	**0.675**		0.271	0.278		0.274	pCi/g	10/11/21 10:41	11/05/21 07:59	1

Client Sample ID: Cell19-77-S-3-4-211005 Lab Sample ID: 860-13162-7
Date Collected: 10/05/21 13:53 **Matrix: Solid**
Date Received: 10/06/21 11:03 **Percent Solids: 77.6**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00323	U	0.00646	0.00323	mg/Kg	☼	10/11/21 11:34	10/19/21 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 144*	*10/11/21 11:34*	*10/19/21 12:43*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00509	U	0.0215	0.00509	mg/Kg	☼	10/11/21 10:23	10/13/21 01:33	1
Aroclor 1221	0.00509	U	0.0215	0.00509	mg/Kg	☼	10/11/21 10:23	10/13/21 01:33	1
Aroclor 1232	0.00509	U	0.0215	0.00509	mg/Kg	☼	10/11/21 10:23	10/13/21 01:33	1
Aroclor 1242	0.00509	U	0.0215	0.00509	mg/Kg	☼	10/11/21 10:23	10/13/21 01:33	1
Aroclor 1248	0.00509	U	0.0215	0.00509	mg/Kg	☼	10/11/21 10:23	10/13/21 01:33	1
Aroclor 1254	0.00336	U	0.0215	0.00336	mg/Kg	☼	10/11/21 10:23	10/13/21 01:33	1
Aroclor 1260	0.00336	U	0.0215	0.00336	mg/Kg	☼	10/11/21 10:23	10/13/21 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*35 - 140*	*10/11/21 10:23*	*10/13/21 01:33*	*1*
DCB Decachlorobiphenyl (Surr)	*108*		*37 - 142*	*10/11/21 10:23*	*10/13/21 01:33*	*1*

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Released to Imaging: 4/20/2022 8:49:45 AM

Surrogate Summary

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

Job ID: 860-13162-1

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)
860-13162-1	Cell20-157-S-3-4-211005	106	97	103	95
860-13162-1 MS	Cell20-157-S-3-4-211005	95	102	101	105
860-13162-1 MSD	Cell20-157-S-3-4-211005	98	101	102	105
860-13162-2	Cell20-132-S-3-4-211005	101	99	102	99
860-13162-3	Cell20-47-S-3-4-211005	104	99	104	104
860-13162-4	Cell20-51-S-3-4-211005	103	100	102	100
860-13162-5	Cell19-104-S-3-4-211005	102	101	102	104
860-13162-6	Cell19-80-S-3-4-211005	105	99	103	101
860-13162-7	Cell19-77-S-3-4-211005	104	98	102	98
LCS 560-189770/3	Lab Control Sample	98	101	102	100
MB 560-189770/8	Method Blank	101	100	102	96

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)
860-13162-1	Cell20-157-S-3-4-211005	95
860-13162-1 MS	Cell20-157-S-3-4-211005	100
860-13162-2	Cell20-132-S-3-4-211005	93
860-13162-3	Cell20-47-S-3-4-211005	102
860-13162-4	Cell20-51-S-3-4-211005	110
860-13162-5	Cell19-104-S-3-4-211005	99
860-13162-6	Cell19-80-S-3-4-211005	99
860-13162-7	Cell19-77-S-3-4-211005	95
LCS 860-27086/3	Lab Control Sample	97
LCSD 860-27086/4	Lab Control Sample Dup	99
MB 860-27086/9	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)
860-13162-1	Cell20-157-S-3-4-211005	88
860-13162-1 MS	Cell20-157-S-3-4-211005	125
860-13162-1 MSD	Cell20-157-S-3-4-211005	127
860-13162-2	Cell20-132-S-3-4-211005	137
860-13162-3	Cell20-47-S-3-4-211005	81
860-13162-4	Cell20-51-S-3-4-211005	124

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
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)
860-13162-5	Cell19-104-S-3-4-211005	99
860-13162-6	Cell19-80-S-3-4-211005	93
860-13162-7	Cell19-77-S-3-4-211005	89
LCS 400-552164/2-A	Lab Control Sample	109
MB 400-552164/1-A	Method Blank	122

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)
860-13162-1	Cell20-157-S-3-4-211005	80	83	77	83	82	82
860-13162-1 MS	Cell20-157-S-3-4-211005	80	85	81	82	84	82
860-13162-1 MSD	Cell20-157-S-3-4-211005	76	70	73	71	67	79
860-13162-2	Cell20-132-S-3-4-211005	81	81	76	82	77	82
860-13162-3	Cell20-47-S-3-4-211005	41	43	42	41	42	42
860-13162-4	Cell20-51-S-3-4-211005	73	61	81	63	66	88
860-13162-5	Cell19-104-S-3-4-211005	73	70	78	68	70	78
860-13162-6	Cell19-80-S-3-4-211005	86	86	82	82	83	83
860-13162-7	Cell19-77-S-3-4-211005	79	79	81	78	77	86
LCS 860-25960/2-A	Lab Control Sample	63	73	57	65	67	63
LCSD 860-25960/3-A	Lab Control Sample Dup	65	79	58	72	73	64
MB 860-25960/1-A	Method Blank	62	71	55	65	68	59

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)	
		OTPH1	1CO1
Lab Sample ID	Client Sample ID	(65-130)	(65-130)
860-13162-1	Cell20-157-S-3-4-211005	108	98
860-13162-2 - RA	Cell20-132-S-3-4-211005	97	91
860-13162-3	Cell20-47-S-3-4-211005	101	92
860-13162-3 MS	Cell20-47-S-3-4-211005	94	101
860-13162-3 MSD	Cell20-47-S-3-4-211005	100	105
860-13162-4	Cell20-51-S-3-4-211005	99	88
860-13162-5	Cell19-104-S-3-4-211005	98	90
860-13162-6	Cell19-80-S-3-4-211005	105	97
860-13162-7	Cell19-77-S-3-4-211005	93	84
LCS 860-25602/2-A	Lab Control Sample	96	104

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
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	OTPH1 (65-130)	1CO1 (65-130)
LCSD 860-25602/3-A	Lab Control Sample Dup	96	106
MB 860-25602/1-A	Method Blank	116	105

Surrogate Legend

OTPH = o-Terphenyl (Surr)
1CO = 1-Chlorooctane

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)
860-13162-1	Cell20-157-S-3-4-211005	95	126
860-13162-2	Cell20-132-S-3-4-211005	98	130
860-13162-3	Cell20-47-S-3-4-211005	96	122
860-13162-4	Cell20-51-S-3-4-211005	80	121
860-13162-5	Cell19-104-S-3-4-211005	95	132
860-13162-6	Cell19-80-S-3-4-211005	91	116
860-13162-7	Cell19-77-S-3-4-211005	96	126
LCS 860-25978/2-A	Lab Control Sample	85	121
LCSD 860-25978/3-A	Lab Control Sample Dup	90	130
MB 860-25978/1-A	Method Blank	95	133

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)
860-13162-1	Cell20-157-S-3-4-211005	82	98
860-13162-2	Cell20-132-S-3-4-211005	82	102
860-13162-3	Cell20-47-S-3-4-211005	87	103
860-13162-4	Cell20-51-S-3-4-211005	75	106
860-13162-5	Cell19-104-S-3-4-211005	79	111
860-13162-6	Cell19-80-S-3-4-211005	73	103
860-13162-7	Cell19-77-S-3-4-211005	82	108
LCS 860-25978/17-A	Lab Control Sample	68	118
LCSD 860-25978/18-A	Lab Control Sample Dup	73	132
MB 860-25978/1-A	Method Blank	80	129

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
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)						
860-13162-1	Cell20-157-S-3-4-211005	103						
860-13162-2	Cell20-132-S-3-4-211005	103						
860-13162-3	Cell20-47-S-3-4-211005	104						
860-13162-4	Cell20-51-S-3-4-211005	103						
860-13162-5	Cell19-104-S-3-4-211005	103						
860-13162-6	Cell19-80-S-3-4-211005	103						
860-13162-7	Cell19-77-S-3-4-211005	102						
860-13162-7 DU	Cell19-77-S-3-4-211005	104						
860-13162-7 MS	Cell19-77-S-3-4-211005	101						
860-13162-7 MSD	Cell19-77-S-3-4-211005	104						
860-13162-7 TRL	Cell19-77-S-3-4-211005	103						
LCS 280-553608/2-A	Lab Control Sample	106						
MB 280-553608/1-A	Method Blank	103						

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)					
860-13162-1	Cell20-157-S-3-4-211005	102	104					
860-13162-1 MS	Cell20-157-S-3-4-211005	99	100					
860-13162-1 MSD	Cell20-157-S-3-4-211005	101	104					
860-13162-2	Cell20-132-S-3-4-211005	101	100					
860-13162-3	Cell20-47-S-3-4-211005	101	100					
860-13162-4	Cell20-51-S-3-4-211005	101	102					
860-13162-5	Cell19-104-S-3-4-211005	100	100					
860-13162-6	Cell19-80-S-3-4-211005	100	101					
860-13162-7	Cell19-77-S-3-4-211005	99	102					
DLCK 280-539536/13	Lab Control Sample	106	100					
LCS 280-553234/2-A	Lab Control Sample	103	100					
MB 280-553234/1-A	Method Blank	103	103					

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: 860-13162-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-189770/8
Matrix: Solid
Analysis Batch: 189770

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			10/12/21 12:24	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			10/12/21 12:24	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			10/12/21 12:24	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			10/12/21 12:24	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			10/12/21 12:24	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			10/12/21 12:24	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			10/12/21 12:24	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			10/12/21 12:24	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			10/12/21 12:24	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			10/12/21 12:24	1
Methylene Chloride	7.977	J	25.0	5.00	ug/Kg			10/12/21 12:24	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			10/12/21 12:24	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			10/12/21 12:24	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			10/12/21 12:24	1
Benzene	0.630	U	5.00	0.630	ug/Kg			10/12/21 12:24	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			10/12/21 12:24	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			10/12/21 12:24	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			10/12/21 12:24	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			10/12/21 12:24	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			10/12/21 12:24	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			10/12/21 12:24	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			10/12/21 12:24	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			10/12/21 12:24	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			10/12/21 12:24	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			10/12/21 12:24	1
Toluene	0.900	U	5.00	0.900	ug/Kg			10/12/21 12:24	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			10/12/21 12:24	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			10/12/21 12:24	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			10/12/21 12:24	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			10/12/21 12:24	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			10/12/21 12:24	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			10/12/21 12:24	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			10/12/21 12:24	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			10/12/21 12:24	1
Styrene	0.300	U	5.00	0.300	ug/Kg			10/12/21 12:24	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			10/12/21 12:24	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			10/12/21 12:24	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			10/12/21 12:24	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			10/12/21 12:24	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			10/12/21 12:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 152*		*10/12/21 12:24*	*1*
Toluene-d8 (Surr)	*100*		*65 - 139*		*10/12/21 12:24*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 136*		*10/12/21 12:24*	*1*
4-Bromofluorobenzene (Surr)	*96*		*61 - 142*		*10/12/21 12:24*	*1*

QC Sample Results

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

Job ID: 860-13162-1

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

Lab Sample ID: LCS 560-189770/3
Matrix: Solid
Analysis Batch: 189770

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	24.76		ug/Kg		62	13 - 130
Chloromethane	40.0	30.77		ug/Kg		77	61 - 137
Vinyl chloride	40.0	34.49		ug/Kg		86	65 - 139
Bromomethane	40.0	36.54		ug/Kg		91	57 - 155
Trichlorofluoromethane	40.0	35.04		ug/Kg		88	68 - 146
Acrolein	395	493.7		ug/Kg		125	20 - 150
1,1-Dichloroethene	40.0	35.40		ug/Kg		88	70 - 130
trans-1,2-Dichloroethene	40.0	35.27		ug/Kg		88	70 - 132
Methyl tert-butyl ether	40.0	36.09		ug/Kg		90	70 - 130
1,3-Dichlorobenzene	40.0	35.95		ug/Kg		90	70 - 130
Methylene Chloride	40.0	41.77		ug/Kg		104	61 - 150
Acrylonitrile	400	362.5		ug/Kg		91	66 - 137
cis-1,2-Dichloroethene	40.0	36.55		ug/Kg		91	70 - 130
Carbon tetrachloride	40.0	36.90		ug/Kg		92	70 - 136
Benzene	40.0	35.39		ug/Kg		88	70 - 131
1,2-Dichloroethane	40.0	33.17		ug/Kg		83	70 - 130
Trichloroethene	40.0	37.07		ug/Kg		93	70 - 130
1,1,1-Trichloroethane	40.0	36.85		ug/Kg		92	70 - 132
1,1-Dichloroethane	40.0	34.67		ug/Kg		87	70 - 130
1,2-Dichloropropane	40.0	35.38		ug/Kg		88	70 - 130
1,4-Dioxane	800	742.6		ug/Kg		93	10 - 150
Chloroform	40.0	34.76		ug/Kg		87	70 - 130
Bromodichloromethane	40.0	36.81		ug/Kg		92	70 - 130
1,1-Dichloropropene	40.0	36.68		ug/Kg		92	70 - 130
cis-1,3-Dichloropropene	40.0	35.87		ug/Kg		90	70 - 130
Toluene	40.0	35.37		ug/Kg		88	70 - 130
trans-1,3-Dichloropropene	40.0	38.72		ug/Kg		97	70 - 131
1,1,2-Trichloroethane	40.0	36.81		ug/Kg		92	70 - 130
Tetrachloroethene	40.0	41.67		ug/Kg		104	70 - 130
1,3-Dichloropropene, Total	80.0	74.59		ug/Kg		93	
1,2-Dibromoethane	40.0	37.12		ug/Kg		93	70 - 130
Monochlorobenzene	40.0	35.50		ug/Kg		89	70 - 130
Ethylbenzene	40.0	37.96		ug/Kg		95	70 - 130
Xylenes, Total	80.0	79.29		ug/Kg		99	70 - 130
Styrene	40.0	39.12		ug/Kg		98	70 - 130
Tribromomethane	40.0	38.40		ug/Kg		96	59 - 137
1,1,2,2-Tetrachloroethane	40.0	36.19		ug/Kg		90	70 - 130
1,4-Dichlorobenzene	40.0	34.84		ug/Kg		87	70 - 130
1,2-Dichlorobenzene	40.0	36.55		ug/Kg		91	70 - 130
1,2,4-Trichlorobenzene	40.0	40.78		ug/Kg		102	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*65 - 152*
Toluene-d8 (Surr)	*101*		*65 - 139*
Dibromofluoromethane (Surr)	*102*		*50 - 136*
4-Bromofluorobenzene (Surr)	*100*		*61 - 142*

QC Sample Results

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

Job ID: 860-13162-1

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

Lab Sample ID: 860-13162-1 MS
Matrix: Solid
Analysis Batch: 189770

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.705	U	38.2	21.97		ug/Kg		58	13 - 130
Chloromethane	1.16	U	38.2	28.84		ug/Kg		76	61 - 137
Vinyl chloride	0.579	U	38.2	31.25		ug/Kg		82	65 - 139
Bromomethane	1.06	U	38.2	33.07		ug/Kg		87	57 - 155
Trichlorofluoromethane	0.483	U	38.2	32.49		ug/Kg		85	68 - 146
Acrolein	8.30	U	377	250.6		ug/Kg		66	20 - 150
1,1-Dichloroethene	0.483	U	38.2	32.63		ug/Kg		85	70 - 130
trans-1,2-Dichloroethene	0.483	U	38.2	34.12		ug/Kg		89	70 - 132
Methyl tert-butyl ether	0.589	U	38.2	34.84		ug/Kg		91	70 - 130
1,3-Dichlorobenzene	0.299	U	38.2	34.83		ug/Kg		91	70 - 130
Methylene Chloride	4.92	J b	38.2	36.34		ug/Kg		82	61 - 150
Acrylonitrile	3.47	U	382	327.1		ug/Kg		86	66 - 137
cis-1,2-Dichloroethene	0.550	U	38.2	35.37		ug/Kg		93	70 - 130
Carbon tetrachloride	0.492	U	38.2	35.94		ug/Kg		94	70 - 136
Benzene	0.608	U	38.2	33.97		ug/Kg		89	70 - 131
1,2-Dichloroethane	0.502	U	38.2	31.67		ug/Kg		83	70 - 130
Trichloroethene	0.270	U	38.2	35.38		ug/Kg		93	70 - 130
1,1,1-Trichloroethane	0.483	U	38.2	35.05		ug/Kg		92	70 - 132
1,1-Dichloroethane	0.569	U	38.2	33.45		ug/Kg		88	70 - 130
1,2-Dichloropropane	0.483	U	38.2	33.55		ug/Kg		88	70 - 130
1,4-Dioxane	18.3	U	763	746.8		ug/Kg		98	10 - 150
Chloroform	0.840	U	38.2	33.52		ug/Kg		88	70 - 130
Bromodichloromethane	0.193	U	38.2	34.79		ug/Kg		91	70 - 130
1,1-Dichloropropene	0.502	U	38.2	35.96		ug/Kg		94	70 - 130
cis-1,3-Dichloropropene	0.434	U	38.2	34.83		ug/Kg		91	70 - 130
Toluene	0.869	U	38.2	34.70		ug/Kg		91	70 - 130
trans-1,3-Dichloropropene	0.502	U	38.2	36.82		ug/Kg		96	70 - 131
1,1,2-Trichloroethane	0.483	U	38.2	34.73		ug/Kg		91	70 - 130
Tetrachloroethene	0.714	U	38.2	37.77		ug/Kg		99	70 - 130
1,3-Dichloropropene, Total	0.502	U	76.3	71.66		ug/Kg		94	
1,2-Dibromoethane	0.290	U	38.2	34.92		ug/Kg		91	70 - 130
Monochlorobenzene	0.290	U	38.2	34.03		ug/Kg		89	70 - 130
Ethylbenzene	0.434	U	38.2	37.07		ug/Kg		97	70 - 130
Xylenes, Total	0.483	U	76.3	76.79		ug/Kg		101	70 - 130
Styrene	0.290	U	38.2	36.81		ug/Kg		96	70 - 130
Tribromomethane	0.492	U	38.2	35.86		ug/Kg		94	59 - 137
1,1,2,2-Tetrachloroethane	0.367	U	38.2	35.86		ug/Kg		94	70 - 130
1,4-Dichlorobenzene	0.309	U	38.2	33.47		ug/Kg		88	70 - 130
1,2-Dichlorobenzene	0.241	U	38.2	33.52		ug/Kg		88	70 - 130
1,2,4-Trichlorobenzene	0.936	U	38.2	28.99		ug/Kg		76	68 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*65 - 152*
Toluene-d8 (Surr)	*102*		*65 - 139*
Dibromofluoromethane (Surr)	*101*		*50 - 136*
4-Bromofluorobenzene (Surr)	*105*		*61 - 142*

QC Sample Results

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

Job ID: 860-13162-1

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

Lab Sample ID: 860-13162-1 MSD
Matrix: Solid
Analysis Batch: 189770

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	0.705	U	39.3	19.55		ug/Kg		50	13 - 130	12	40.0
Chloromethane	1.16	U	39.3	25.99		ug/Kg		66	61 - 137	10	40.0
Vinyl chloride	0.579	U	39.3	29.24		ug/Kg		74	65 - 139	7	40.0
Bromomethane	1.06	U	39.3	30.60		ug/Kg		78	57 - 155	8	40.0
Trichlorofluoromethane	0.483	U	39.3	29.69		ug/Kg		76	68 - 146	9	40.0
Acrolein	8.30	U	388	173.0		ug/Kg		45	20 - 150	37	40.0
1,1-Dichloroethene	0.483	U	39.3	29.22		ug/Kg		74	70 - 130	11	40.0
trans-1,2-Dichloroethene	0.483	U	39.3	31.05		ug/Kg		79	70 - 132	9	40.0
Methyl tert-butyl ether	0.589	U	39.3	31.72		ug/Kg		81	70 - 130	9	40.0
1,3-Dichlorobenzene	0.299	U	39.3	30.73		ug/Kg		78	70 - 130	13	40.0
Methylene Chloride	4.92	J b	39.3	34.43		ug/Kg		75	61 - 150	5	40.0
Acrylonitrile	3.47	U	393	299.3		ug/Kg		76	66 - 137	9	40.0
cis-1,2-Dichloroethene	0.550	U	39.3	32.11		ug/Kg		82	70 - 130	10	40.0
Carbon tetrachloride	0.492	U	39.3	32.31		ug/Kg		82	70 - 136	11	40.0
Benzene	0.608	U	39.3	31.23		ug/Kg		79	70 - 131	8	40.0
1,2-Dichloroethane	0.502	U	39.3	29.02		ug/Kg		74	70 - 130	9	40.0
Trichloroethene	0.270	U	39.3	32.65		ug/Kg		83	70 - 130	8	40.0
1,1,1-Trichloroethane	0.483	U	39.3	32.12		ug/Kg		82	70 - 132	9	40.0
1,1-Dichloroethane	0.569	U	39.3	30.51		ug/Kg		78	70 - 130	9	40.0
1,2-Dichloropropane	0.483	U	39.3	30.75		ug/Kg		78	70 - 130	9	40.0
1,4-Dioxane	18.3	U	786	695.1		ug/Kg		88	10 - 150	7	40.0
Chloroform	0.840	U	39.3	30.60		ug/Kg		78	70 - 130	9	40.0
Bromodichloromethane	0.193	U	39.3	32.13		ug/Kg		82	70 - 130	8	40.0
1,1-Dichloropropene	0.502	U	39.3	33.02		ug/Kg		84	70 - 130	9	40.0
cis-1,3-Dichloropropene	0.434	U	39.3	31.22		ug/Kg		79	70 - 130	11	40.0
Toluene	0.869	U	39.3	31.18		ug/Kg		79	70 - 130	11	40.0
trans-1,3-Dichloropropene	0.502	U	39.3	33.51		ug/Kg		85	70 - 131	9	40.0
1,1,2-Trichloroethane	0.483	U	39.3	31.66		ug/Kg		81	70 - 130	9	40.0
Tetrachloroethene	0.714	U	39.3	34.23		ug/Kg		87	70 - 130	10	40.0
1,3-Dichloropropene, Total	0.502	U	78.6	64.73		ug/Kg		82		10	40.0
1,2-Dibromoethane	0.290	U	39.3	31.95		ug/Kg		81	70 - 130	9	40.0
Monochlorobenzene	0.290	U	39.3	30.94		ug/Kg		79	70 - 130	9	40.0
Ethylbenzene	0.434	U	39.3	33.62		ug/Kg		86	70 - 130	10	40.0
Xylenes, Total	0.483	U	78.6	69.40		ug/Kg		88	70 - 130	10	40.0
Styrene	0.290	U	39.3	33.56		ug/Kg		85	70 - 130	9	40.0
Tribromomethane	0.492	U	39.3	32.76		ug/Kg		83	59 - 137	9	40.0
1,1,2,2-Tetrachloroethane	0.367	U	39.3	32.57		ug/Kg		83	70 - 130	10	40.0
1,4-Dichlorobenzene	0.309	U	39.3	29.74		ug/Kg		76	70 - 130	12	40.0
1,2-Dichlorobenzene	0.241	U	39.3	29.65		ug/Kg		75	70 - 130	12	40.0
1,2,4-Trichlorobenzene	0.936	U	39.3	24.20	N1	ug/Kg		62	68 - 140	18	40.0

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*65 - 152*
Toluene-d8 (Surr)	*101*		*65 - 139*
Dibromofluoromethane (Surr)	*102*		*50 - 136*
4-Bromofluorobenzene (Surr)	*105*		*61 - 142*

QC Sample Results

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

Job ID: 860-13162-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-27086/9
Matrix: Solid
Analysis Batch: 27086

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			10/19/21 10:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*		*10/19/21 10:44*	*1*

Lab Sample ID: LCS 860-27086/3
Matrix: Solid
Analysis Batch: 27086

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	0.04177		mg/Kg		84	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*

Lab Sample ID: LCSD 860-27086/4
Matrix: Solid
Analysis Batch: 27086

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	0.04024		mg/Kg		80	65 - 135	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*

Lab Sample ID: 860-13162-1 MS
Matrix: Solid
Analysis Batch: 27086

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)	0.00274	U	0.0545	0.05222		mg/Kg	☼	96	65 - 135		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-552164/1-A
Matrix: Solid
Analysis Batch: 552737

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 552164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		10/19/21 16:25	10/23/21 13:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*122*		*30 - 164*	*10/19/21 16:25*	*10/23/21 13:04*	*1*

QC Sample Results

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

Job ID: 860-13162-1

Method: 8270D - Pesticides by GC/MS (Continued)

Lab Sample ID: LCS 400-552164/2-A
Matrix: Solid
Analysis Batch: 552998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 552164

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	322.2		ug/Kg		97	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*109*		*30 - 164*

Lab Sample ID: 860-13162-1 MS
Matrix: Solid
Analysis Batch: 552737

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 552164

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon	23.6	U	333	332.2		ug/Kg		100	40 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Triphenylphosphate	*125*		*30 - 164*

Lab Sample ID: 860-13162-1 MSD
Matrix: Solid
Analysis Batch: 552737

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 552164

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Prometon	23.6	U	329	311.2		ug/Kg		95	40 - 140	7	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Triphenylphosphate	*127*		*30 - 164*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-25960/1-A
Matrix: Solid
Analysis Batch: 25955

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25960

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		10/11/21 09:18	10/11/21 15:59	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/11/21 09:18	10/11/21 15:59	1

QC Sample Results

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

Job ID: 860-13162-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-25960/1-A
Matrix: Solid
Analysis Batch: 25955

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25960

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/11/21 09:18	10/11/21 15:59	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/11/21 09:18	10/11/21 15:59	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/11/21 09:18	10/11/21 15:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*30 - 115*	*10/11/21 09:18*	*10/11/21 15:59*	*1*
2-Fluorophenol	*71*		*25 - 121*	*10/11/21 09:18*	*10/11/21 15:59*	*1*
2,4,6-Tribromophenol	*55*		*19 - 122*	*10/11/21 09:18*	*10/11/21 15:59*	*1*
Nitrobenzene-d5	*65*		*23 - 129*	*10/11/21 09:18*	*10/11/21 15:59*	*1*
Phenol-d5 (Surr)	*68*		*24 - 113*	*10/11/21 09:18*	*10/11/21 15:59*	*1*
p-Terphenyl-d14 (Surr)	*59*		*18 - 137*	*10/11/21 09:18*	*10/11/21 15:59*	*1*

QC Sample Results

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

Job ID: 860-13162-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-25960/2-A
Matrix: Solid
Analysis Batch: 25955

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25960

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	959.3		ug/Kg		72	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	898.9		ug/Kg		67	35 - 135
1-Methylnaphthalene	1330	820.7		ug/Kg		62	38 - 127
bis (2-chloroisopropyl) ether	1330	949.8		ug/Kg		71	25 - 124
2,4,5-Trichlorophenol	1330	900.1		ug/Kg		68	40 - 135
2,4,6-Trichlorophenol	1330	914.1		ug/Kg		69	39 - 139
2,4-Dinitrotoluene	1330	862.8		ug/Kg		65	48 - 131
Dinitrophenols	1330	684.3		ug/Kg		51	19 - 131
2,4-Dichlorophenol	1330	928.6		ug/Kg		70	36 - 135
2,6-Dinitrotoluene	1330	820.6		ug/Kg		62	42 - 136
Dichlorobenzidine, 3,3'-	1330	681.8		ug/Kg		51	35 - 134
4,6-Dinitro-2-methylphenol	1330	879.6		ug/Kg		66	30 - 146
Acenaphthene	1330	867.4		ug/Kg		65	37 - 131
Anthracene	1330	860.3		ug/Kg		65	39 - 139
Acenaphthylene	1330	880.7		ug/Kg		66	39 - 129
Benzo[a]anthracene	1330	811.7		ug/Kg		61	44 - 135
Benzo[b]fluoranthene	1330	822.9		ug/Kg		62	40 - 153
Benzo[k]fluoranthene	1330	895.2		ug/Kg		67	33 - 156
Benzo[g,h,i]perylene	1330	861.7		ug/Kg		65	40 - 153
Benzo[a]pyrene	1330	866.0		ug/Kg		65	43 - 153
Di (2-ethylhexyl)phthalate	1330	932.4		ug/Kg		70	46 - 145
Bis(2-chloroethyl)ether	1330	1080		ug/Kg		81	33 - 127
Chrysene	1330	853.9		ug/Kg		64	42 - 135
Dibutylphthalate	1330	865.2		ug/Kg		65	43 - 142
Dibenz(a,h)anthracene	1330	882.3		ug/Kg		66	41 - 155
Diethyl phthalate	1330	853.5		ug/Kg		64	45 - 131
Dimethyl phthalate	1330	828.4		ug/Kg		62	43 - 132
Fluoranthene	1330	832.2		ug/Kg		62	41 - 138
Fluorene	1330	881.1		ug/Kg		66	41 - 131
Hexachlorobenzene	1330	819.1		ug/Kg		61	36 - 142
Hexachlorobutadiene	1330	835.8		ug/Kg		63	35 - 129
Hexachlorocyclopentadiene	1330	737.0		ug/Kg		55	16 - 106
Hexachloroethane	1330	886.6		ug/Kg		66	36 - 121
Indeno[1,2,3-cd]pyrene	1330	871.9		ug/Kg		65	39 - 154
Isophorone	1330	889.9		ug/Kg		67	36 - 128
N-Nitrosodi-n-butylamine	1330	891.7		ug/Kg		67	34 - 135
N-Nitrosodiethylamine	1330	1008		ug/Kg		76	36 - 127
N-Nitrosodiphenylamine	1330	912.7		ug/Kg		68	27 - 155
N-Nitrosopyrrolidine	1330	1012		ug/Kg		76	38 - 136
Pentachlorobenzene	1330	832.1		ug/Kg		62	38 - 136
Pentachlorophenol	1330	594.9		ug/Kg		45	14 - 148
Phenanthrene	1330	867.5		ug/Kg		65	37 - 139
Pyrene	1330	916.3		ug/Kg		69	42 - 138
Naphthalene	1330	883.9		ug/Kg		66	35 - 128
2-Methylnaphthalene	1330	880.9		ug/Kg		66	36 - 126
Nitrobenzene	1330	928.2		ug/Kg		70	32 - 129
Benzidine	1330	515.2		ug/Kg		39	12 - 112
Phenol	1.33	0.9193		mg/Kg		69	34 - 127

QC Sample Results

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

Job ID: 860-13162-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-25960/2-A
Matrix: Solid
Analysis Batch: 25955

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25960

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
N-Nitrosodimethylamine			1330	965.3		ug/Kg		72	27 - 126		
Atrazine			1330	861.4		ug/Kg		65	18 - 134		
Thiophene, tetrahydro-, 1,1-dioxide			1330	1079		ug/Kg		81	30 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*63*		*30 - 115*
2-Fluorophenol	*73*		*25 - 121*
2,4,6-Tribromophenol	*57*		*19 - 122*
Nitrobenzene-d5	*65*		*23 - 129*
Phenol-d5 (Surr)	*67*		*24 - 113*
p-Terphenyl-d14 (Surr)	*63*		*18 - 137*

Lab Sample ID: LCSD 860-25960/3-A
Matrix: Solid
Analysis Batch: 25955

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25960

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)			1330	944.2		ug/Kg		71	20 - 157	2	30
1,2,4,5-Tetrachlorobenzene			1330	886.9		ug/Kg		67	35 - 135	1	30
1-Methylnaphthalene			1330	958.6		ug/Kg		72	38 - 127	16	30
bis (2-chloroisopropyl) ether			1330	1043		ug/Kg		78	25 - 124	9	30
2,4,5-Trichlorophenol			1330	953.0		ug/Kg		71	40 - 135	6	30
2,4,6-Trichlorophenol			1330	936.3		ug/Kg		70	39 - 139	2	30
2,4-Dinitrotoluene			1330	933.1		ug/Kg		70	48 - 131	8	30
Dinitrophenols			1330	762.9		ug/Kg		57	19 - 131	11	40
2,4-Dichlorophenol			1330	1041		ug/Kg		78	36 - 135	11	30
2,6-Dinitrotoluene			1330	914.9		ug/Kg		69	42 - 136	11	30
Dichlorobenzidine, 3,3'-			1330	756.5		ug/Kg		57	35 - 134	10	40
4,6-Dinitro-2-methylphenol			1330	934.4		ug/Kg		70	30 - 146	6	40
Acenaphthene			1330	913.2		ug/Kg		68	37 - 131	5	30
Anthracene			1330	912.0		ug/Kg		68	39 - 139	6	30
Acenaphthylene			1330	909.4		ug/Kg		68	39 - 129	3	30
Benzo[a]anthracene			1330	855.4		ug/Kg		64	44 - 135	5	30
Benzo[b]fluoranthene			1330	858.6		ug/Kg		64	40 - 153	4	30
Benzo[k]fluoranthene			1330	927.2		ug/Kg		70	33 - 156	4	30
Benzo[g,h,i]perylene			1330	961.5		ug/Kg		72	40 - 153	11	30
Benzo[a]pyrene			1330	912.5		ug/Kg		68	43 - 153	5	30
Di (2-ethylhexyl)phthalate			1330	950.1		ug/Kg		71	46 - 145	2	30
Bis(2-chloroethyl)ether			1330	1252		ug/Kg		94	33 - 127	15	30
Chrysene			1330	888.0		ug/Kg		67	42 - 135	4	30
Dibutylphthalate			1330	935.3		ug/Kg		70	43 - 142	8	30
Dibenz(a,h)anthracene			1330	958.7		ug/Kg		72	41 - 155	8	30
Diethyl phthalate			1330	912.9		ug/Kg		68	45 - 131	7	30
Dimethyl phthalate			1330	861.7		ug/Kg		65	43 - 132	4	30
Fluoranthene			1330	908.2		ug/Kg		68	41 - 138	9	30
Fluorene			1330	922.1		ug/Kg		69	41 - 131	5	30
Hexachlorobenzene			1330	849.0		ug/Kg		64	36 - 142	4	30

QC Sample Results

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

Job ID: 860-13162-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-25960/3-A
Matrix: Solid
Analysis Batch: 25955

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25960

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobutadiene			1330	926.8		ug/Kg		70	35 - 129	10	30
Hexachlorocyclopentadiene			1330	690.4		ug/Kg		52	16 - 106	7	30
Hexachloroethane			1330	977.4		ug/Kg		73	36 - 121	10	30
Indeno[1,2,3-cd]pyrene			1330	953.4		ug/Kg		72	39 - 154	9	30
Isophorone			1330	963.7		ug/Kg		72	36 - 128	8	30
N-Nitrosodi-n-butylamine			1330	1018		ug/Kg		76	34 - 135	13	30
N-Nitrosodiethylamine			1330	1052		ug/Kg		79	36 - 127	4	30
N-Nitrosodiphenylamine			1330	885.3		ug/Kg		66	27 - 155	3	30
N-Nitrosopyrrolidine			1330	1108		ug/Kg		83	38 - 136	9	30
Pentachlorobenzene			1330	853.8		ug/Kg		64	38 - 136	3	30
Pentachlorophenol			1330	614.7		ug/Kg		46	14 - 148	3	40
Phenanthrene			1330	911.2		ug/Kg		68	37 - 139	5	30
Pyrene			1330	910.0		ug/Kg		68	42 - 138	1	30
Naphthalene			1330	964.3		ug/Kg		72	35 - 128	9	30
2-Methylnaphthalene			1330	988.5		ug/Kg		74	36 - 126	12	30
Nitrobenzene			1330	1039		ug/Kg		78	32 - 129	11	30
Benzidine			1330	615.1		ug/Kg		46	12 - 112	18	40
Phenol			1.33	1.023		mg/Kg		77	34 - 127	11	40
N-Nitrosodimethylamine			1330	998.3		ug/Kg		75	27 - 126	3	30
Atrazine			1330	903.8		ug/Kg		68	18 - 134	5	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	1264		ug/Kg		95	30 - 130	16	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*65*		*30 - 115*
2-Fluorophenol	*79*		*25 - 121*
2,4,6-Tribromophenol	*58*		*19 - 122*
Nitrobenzene-d5	*72*		*23 - 129*
Phenol-d5 (Surr)	*73*		*24 - 113*
p-Terphenyl-d14 (Surr)	*64*		*18 - 137*

Lab Sample ID: 860-13162-1 MS
Matrix: Solid
Analysis Batch: 25955

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 25960

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	1272		ug/Kg		95	20 - 157
1,2,4,5-Tetrachlorobenzene	16.5	U	1330	1128		ug/Kg		85	35 - 135
1-Methylnaphthalene	26.7	U	1330	1109		ug/Kg		83	38 - 127
bis (2-chloroisopropyl) ether	17.8	U	1330	1142		ug/Kg		86	25 - 124
2,4,5-Trichlorophenol	19.0	U	1330	1279		ug/Kg		96	40 - 135
2,4,6-Trichlorophenol	15.7	U	1330	1242		ug/Kg		93	39 - 139
2,4-Dinitrotoluene	12.7	U	1330	1218		ug/Kg		92	48 - 131
Dinitrophenols	24.2	U	1330	728.3		ug/Kg		55	19 - 131
2,4-Dichlorophenol	17.4	U	1330	1268		ug/Kg		95	36 - 135
2,6-Dinitrotoluene	23.3	U	1330	1183		ug/Kg		89	42 - 136
Dichlorobenzidine, 3,3'-	15.4	U	1330	1082		ug/Kg		81	35 - 134
4,6-Dinitro-2-methylphenol	12.7	U	1330	1028		ug/Kg		77	30 - 146

QC Sample Results

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

Job ID: 860-13162-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-13162-1 MS
Matrix: Solid
Analysis Batch: 25955

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 25960

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	15.5	U	1330	1188		ug/Kg		89	37 - 131
Anthracene	13.8	U	1330	1241		ug/Kg		93	39 - 139
Acenaphthylene	14.8	U	1330	1166		ug/Kg		88	39 - 129
Benzo[a]anthracene	14.1	U	1330	1155		ug/Kg		87	44 - 135
Benzo[b]fluoranthene	12.6	U	1330	1221		ug/Kg		92	40 - 153
Benzo[k]fluoranthene	19.3	U	1330	1230		ug/Kg		92	33 - 156
Benzo[g,h,i]perylene	15.3	U	1330	1299		ug/Kg		98	40 - 153
Benzo[a]pyrene	17.2	U	1330	1231		ug/Kg		92	43 - 153
Di (2-ethylhexyl)phthalate	167	U	1330	1255		ug/Kg		94	46 - 145
Bis(2-chloroethyl)ether	15.2	U	1330	1446		ug/Kg		109	33 - 127
Chrysene	16.5	U	1330	1155		ug/Kg		87	42 - 135
Dibutylphthalate	16.0	U	1330	1239		ug/Kg		93	43 - 142
Dibenz(a,h)anthracene	12.7	U	1330	1301		ug/Kg		98	41 - 155
Diethyl phthalate	15.3	U	1330	1185		ug/Kg		89	45 - 131
Dimethyl phthalate	15.9	U	1330	1133		ug/Kg		85	43 - 132
Fluoranthene	14.7	U	1330	1203		ug/Kg		90	41 - 138
Fluorene	13.8	U	1330	1197		ug/Kg		90	41 - 131
Hexachlorobenzene	16.2	U	1330	1140		ug/Kg		86	36 - 142
Hexachlorobutadiene	13.8	U	1330	1066		ug/Kg		80	35 - 129
Hexachlorocyclopentadiene	15.2	U	1330	653.6		ug/Kg		49	16 - 106
Hexachloroethane	17.3	U	1330	1022		ug/Kg		77	36 - 121
Indeno[1,2,3-cd]pyrene	13.4	U	1330	1289		ug/Kg		97	39 - 154
Isophorone	14.5	U	1330	1141		ug/Kg		86	36 - 128
N-Nitrosodi-n-butylamine	25.2	U	1330	1205		ug/Kg		90	34 - 135
N-Nitrosodiethylamine	21.9	U	1330	1152		ug/Kg		87	36 - 127
N-Nitrosodiphenylamine	18.6	U	1330	1219		ug/Kg		92	27 - 155
N-Nitrosopyrrolidine	14.1	U	1330	1238		ug/Kg		93	38 - 136
Pentachlorobenzene	15.9	U	1330	1110		ug/Kg		83	38 - 136
Pentachlorophenol	12.1	U	1330	779.5		ug/Kg		59	14 - 148
Phenanthrene	16.6	U	1330	1222		ug/Kg		92	37 - 139
Pyrene	14.6	U	1330	1178		ug/Kg		88	42 - 138
Naphthalene	15.6	U	1330	1132		ug/Kg		85	35 - 128
2-Methylnaphthalene	45.1	U	1330	1157		ug/Kg		87	36 - 126
Nitrobenzene	18.5	U	1330	1193		ug/Kg		90	32 - 129
Benzidine	12.1	U	1330	679.4		ug/Kg		51	12 - 112
Phenol	0.0150	U	1.33	1.174		mg/Kg		88	34 - 127
N-Nitrosodimethylamine	16.7	U	1330	1069		ug/Kg		80	27 - 126
Atrazine	16.5	U	1330	942.9		ug/Kg		71	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	333	U	1330	1513		ug/Kg		114	

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*80*		*30 - 115*
2-Fluorophenol	*85*		*25 - 121*
2,4,6-Tribromophenol	*81*		*19 - 122*
Nitrobenzene-d5	*82*		*23 - 129*
Phenol-d5 (Surr)	*84*		*24 - 113*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*

QC Sample Results

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

Job ID: 860-13162-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-13162-1 MSD
Matrix: Solid
Analysis Batch: 25955

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 25960

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	1192		ug/Kg		89	20 - 157	6	30
1,2,4,5-Tetrachlorobenzene	16.5	U	1330	1067		ug/Kg		80	35 - 135	6	30
1-Methylnaphthalene	26.7	U	1330	962.0		ug/Kg		72	38 - 127	14	30
bis (2-chloroisopropyl) ether	17.8	U	1330	975.3		ug/Kg		73	25 - 124	16	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	1142		ug/Kg		86	39 - 139	8	30
2,4-Dinitrotoluene	12.7	U	1330	1106		ug/Kg		83	48 - 131	10	30
Dinitrophenols	24.2	U	1330	576.6		ug/Kg		43	19 - 131	23	40
2,4-Dichlorophenol	17.4	U	1330	1069		ug/Kg		80	36 - 135	17	30
2,6-Dinitrotoluene	23.3	U	1330	1055		ug/Kg		79	42 - 136	11	30
Dichlorobenzidine, 3,3'-	15.4	U	1330	1060		ug/Kg		80	35 - 134	2	40
4,6-Dinitro-2-methylphenol	12.7	U	1330	849.1		ug/Kg		64	30 - 146	19	40
Acenaphthene	15.5	U	1330	1088		ug/Kg		82	37 - 131	9	30
Anthracene	13.8	U	1330	1112		ug/Kg		83	39 - 139	11	30
Acenaphthylene	14.8	U	1330	1072		ug/Kg		80	39 - 129	8	30
Benzo[a]anthracene	14.1	U	1330	1055		ug/Kg		79	44 - 135	9	30
Benzo[b]fluoranthene	12.6	U	1330	986.2		ug/Kg		74	40 - 153	21	30
Benzo[k]fluoranthene	19.3	U	1330	1113		ug/Kg		84	33 - 156	10	30
Benzo[g,h,i]perylene	15.3	U	1330	1209		ug/Kg		91	40 - 153	7	30
Benzo[a]pyrene	17.2	U	1330	1129		ug/Kg		85	43 - 153	9	30
Di (2-ethylhexyl)phthalate	167	U	1330	1159		ug/Kg		87	46 - 145	8	30
Bis(2-chloroethyl)ether	15.2	U	1330	1056	N2	ug/Kg		79	33 - 127	31	30
Chrysene	16.5	U	1330	1072		ug/Kg		80	42 - 135	8	30
Dibutylphthalate	16.0	U	1330	1096		ug/Kg		82	43 - 142	12	30
Dibenz(a,h)anthracene	12.7	U	1330	1212		ug/Kg		91	41 - 155	7	30
Diethyl phthalate	15.3	U	1330	1058		ug/Kg		79	45 - 131	11	30
Dimethyl phthalate	15.9	U	1330	1062		ug/Kg		80	43 - 132	6	30
Fluoranthene	14.7	U	1330	1013		ug/Kg		76	41 - 138	17	30
Fluorene	13.8	U	1330	1051		ug/Kg		79	41 - 131	13	30
Hexachlorobenzene	16.2	U	1330	1036		ug/Kg		78	36 - 142	10	30
Hexachlorobutadiene	13.8	U	1330	937.0		ug/Kg		70	35 - 129	13	30
Hexachlorocyclopentadiene	15.2	U	1330	676.2		ug/Kg		51	16 - 106	3	30
Hexachloroethane	17.3	U	1330	872.9		ug/Kg		66	36 - 121	16	30
Indeno[1,2,3-cd]pyrene	13.4	U	1330	1198		ug/Kg		90	39 - 154	7	30
Isophorone	14.5	U	1330	998.3		ug/Kg		75	36 - 128	13	30
N-Nitrosodi-n-butylamine	25.2	U	1330	1062		ug/Kg		80	34 - 135	13	30
N-Nitrosodiethylamine	21.9	U	1330	956.0		ug/Kg		72	36 - 127	19	30
N-Nitrosodiphenylamine	18.6	U	1330	1127		ug/Kg		85	27 - 155	8	30
N-Nitrosopyrrolidine	14.1	U	1330	1059		ug/Kg		79	38 - 136	16	30
Pentachlorobenzene	15.9	U	1330	1041		ug/Kg		78	38 - 136	6	30
Pentachlorophenol	12.1	U	1330	709.3		ug/Kg		53	14 - 148	9	40
Phenanthrene	16.6	U	1330	1108		ug/Kg		83	37 - 139	10	30
Pyrene	14.6	U	1330	1117		ug/Kg		84	42 - 138	5	30
Naphthalene	15.6	U	1330	981.0		ug/Kg		74	35 - 128	14	30
2-Methylnaphthalene	45.1	U	1330	1010		ug/Kg		76	36 - 126	14	30
Nitrobenzene	18.5	U	1330	1022		ug/Kg		77	32 - 129	15	30
Benzidine	12.1	U	1330	556.9		ug/Kg		42	12 - 112	20	40
Phenol	0.0150	U	1.33	0.9605		mg/Kg		72	34 - 127	20	40

QC Sample Results

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

Job ID: 860-13162-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-13162-1 MSD
Matrix: Solid
Analysis Batch: 25955

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 25960

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodimethylamine	16.7	U	1330	894.6		ug/Kg		67	27 - 126	18	30
Atrazine	16.5	U	1330	711.7		ug/Kg		53	18 - 134	28	40
Thiophene, tetrahydro-, 1,1-dioxide	333	U	1330	1230		ug/Kg		92		21	

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*76*		*30 - 115*
2-Fluorophenol	*70*		*25 - 121*
2,4,6-Tribromophenol	*73*		*19 - 122*
Nitrobenzene-d5	*71*		*23 - 129*
Phenol-d5 (Surr)	*67*		*24 - 113*
p-Terphenyl-d14 (Surr)	*79*		*18 - 137*

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

Lab Sample ID: MB 860-25602/1-A
Matrix: Solid
Analysis Batch: 25575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25602

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		10/07/21 11:41	10/07/21 18:55	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		10/07/21 11:41	10/07/21 18:55	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		10/07/21 11:41	10/07/21 18:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*116*		*65 - 130*	*10/07/21 11:41*	*10/07/21 18:55*	*1*
1-Chlorooctane	*105*		*65 - 130*	*10/07/21 11:41*	*10/07/21 18:55*	*1*

Lab Sample ID: LCS 860-25602/2-A
Matrix: Solid
Analysis Batch: 25575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25602

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	996	974.7		mg/Kg		98	70 - 135
Diesel Range Organics (Over C10-C28)	996	833.8		mg/Kg		84	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*96*		*65 - 130*
1-Chlorooctane	*104*		*65 - 130*

QC Sample Results

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

Job ID: 860-13162-1

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

Lab Sample ID: LCSD 860-25602/3-A
Matrix: Solid
Analysis Batch: 25575

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25602

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	992.2		mg/Kg		99	70 - 135	2	35
Diesel Range Organics (Over C10-C28)			1000	854.2		mg/Kg		85	70 - 135	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*96*		*65 - 130*
1-Chlorooctane	*106*		*65 - 130*

Lab Sample ID: 860-13162-3 MS
Matrix: Solid
Analysis Batch: 25575

Client Sample ID: Cell20-47-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 25602

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	1000	985.2		mg/Kg		99	70 - 135
Diesel Range Organics (Over C10-C28)	21.1	U	1000	833.9		mg/Kg		83	70 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*94*		*65 - 130*
1-Chlorooctane	*101*		*65 - 130*

Lab Sample ID: 860-13162-3 MSD
Matrix: Solid
Analysis Batch: 25575

Client Sample ID: Cell20-47-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 25602

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	996	970.2		mg/Kg		97	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	21.1	U	996	846.4		mg/Kg		85	70 - 135	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*100*		*65 - 130*
1-Chlorooctane	*105*		*65 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-25978/1-A
Matrix: Solid
Analysis Batch: 26526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25978

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.3779	J	3.00	0.254	ug/Kg		10/11/21 10:23	10/14/21 11:09	1
Aldrin	0.363	U	3.00	0.363	ug/Kg		10/11/21 10:23	10/14/21 11:09	1
Hexachlorocyclohexane, alpha-	0.680	U	3.00	0.680	ug/Kg		10/11/21 10:23	10/14/21 11:09	1
Hexachlorocyclohexane, beta-	0.474	U	3.00	0.474	ug/Kg		10/11/21 10:23	10/14/21 11:09	1
Chlordane (technical)	23.9	U	83.0	23.9	ug/Kg		10/11/21 10:23	10/14/21 11:09	1

QC Sample Results

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

Job ID: 860-13162-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-25978/1-A
Matrix: Solid
Analysis Batch: 26526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25978

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclohexane, delta-	0.833	U	3.00	0.833	ug/Kg		10/11/21 10:23	10/14/21 11:09	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/11/21 10:23	10/14/21 11:09	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/11/21 10:23	10/14/21 11:09	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/11/21 10:23	10/14/21 11:09	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/11/21 10:23	10/14/21 11:09	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/11/21 10:23	10/14/21 11:09	1
Endrin aldehyde	0.247	U	3.00	0.247	ug/Kg		10/11/21 10:23	10/14/21 11:09	1
Hexachlorocyclohexane, gamma-	0.439	U	3.00	0.439	ug/Kg		10/11/21 10:23	10/14/21 11:09	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/11/21 10:23	10/14/21 11:09	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/11/21 10:23	10/14/21 11:09	1
Toxaphene	11.3	U	83.0	11.3	ug/Kg		10/11/21 10:23	10/14/21 11:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*35 - 135*	*10/11/21 10:23*	*10/14/21 11:09*	*1*
DCB Decachlorobiphenyl (Surr)	*133*		*25 - 143*	*10/11/21 10:23*	*10/14/21 11:09*	*1*

Lab Sample ID: LCS 860-25978/2-A
Matrix: Solid
Analysis Batch: 26526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25978

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DDT			16.7	20.93		ug/Kg		126	13 - 192		
Aldrin			16.7	17.26		ug/Kg		104	30 - 152		
Hexachlorocyclohexane, alpha-			16.7	16.98		ug/Kg		102	29 - 160		
Hexachlorocyclohexane, beta-			16.7	18.53		ug/Kg		111	30 - 155		
Hexachlorocyclohexane, delta-			16.7	17.70		ug/Kg		106	20 - 161		
Dieldrin			16.7	18.85		ug/Kg		113	33 - 153		
Endosulfan I			16.7	18.32		ug/Kg		110	30 - 151		
Endosulfan II			16.7	18.63		ug/Kg		112	27 - 153		
Endosulfan sulfate			16.7	19.28		ug/Kg		116	15 - 170		
Endrin			16.7	19.69		ug/Kg		118	25 - 162		
Endrin aldehyde			16.7	18.22		ug/Kg		109	49 - 117		
Hexachlorocyclohexane, gamma-			16.7	17.11		ug/Kg		103	30 - 158		
Heptachlor			16.7	18.09		ug/Kg		109	29 - 163		
Heptachlor epoxide			16.7	18.03		ug/Kg		108	30 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*85*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*121*		*25 - 143*

Lab Sample ID: LCSD 860-25978/3-A
Matrix: Solid
Analysis Batch: 26526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25978

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT			16.7	22.71		ug/Kg		136	13 - 192	8	25
Aldrin			16.7	18.30		ug/Kg		110	30 - 152	6	25

QC Sample Results

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

Job ID: 860-13162-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-25978/3-A
Matrix: Solid
Analysis Batch: 26526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25978

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorocyclohexane, alpha-			16.7	17.99		ug/Kg		108	29 - 160	6	25
Hexachlorocyclohexane, beta-			16.7	20.27		ug/Kg		122	30 - 155	9	25
Hexachlorocyclohexane, delta-			16.7	18.76		ug/Kg		113	20 - 161	6	25
Dieldrin			16.7	20.15		ug/Kg		121	33 - 153	7	25
Endosulfan I			16.7	19.58		ug/Kg		117	30 - 151	7	25
Endosulfan II			16.7	20.06		ug/Kg		120	27 - 153	7	25
Endosulfan sulfate			16.7	20.95		ug/Kg		126	15 - 170	8	25
Endrin			16.7	21.31		ug/Kg		128	25 - 162	8	25
Endrin aldehyde			16.7	20.05	*	ug/Kg		120	49 - 117	10	25
Hexachlorocyclohexane, gamma-			16.7	18.41		ug/Kg		110	30 - 158	7	25
Heptachlor			16.7	19.33		ug/Kg		116	29 - 163	7	25
Heptachlor epoxide			16.7	19.19		ug/Kg		115	30 - 150	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*90*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*130*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-25978/1-A
Matrix: Solid
Analysis Batch: 26234

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25978

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		10/11/21 10:23	10/12/21 22:42	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		10/11/21 10:23	10/12/21 22:42	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		10/11/21 10:23	10/12/21 22:42	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		10/11/21 10:23	10/12/21 22:42	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		10/11/21 10:23	10/12/21 22:42	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		10/11/21 10:23	10/12/21 22:42	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		10/11/21 10:23	10/12/21 22:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*35 - 140*	*10/11/21 10:23*	*10/12/21 22:42*	*1*
DCB Decachlorobiphenyl (Surr)	*129*		*37 - 142*	*10/11/21 10:23*	*10/12/21 22:42*	*1*

Lab Sample ID: LCS 860-25978/17-A
Matrix: Solid
Analysis Batch: 26234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25978

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016			0.167	0.1450		mg/Kg		87	27 - 121
Aroclor 1260			0.167	0.1421		mg/Kg		85	27 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*68*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*118*		*37 - 142*

QC Sample Results

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

Job ID: 860-13162-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 860-25978/18-A
Matrix: Solid
Analysis Batch: 26234

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25978

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1262		mg/Kg		76	27 - 121	14	20
Aroclor 1260			0.167	0.1544		mg/Kg		93	27 - 139	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*73*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*132*		*37 - 142*

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-553608/1-A
Matrix: Solid
Analysis Batch: 553760

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553608

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		10/14/21 18:05	10/15/21 19:40	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		10/14/21 18:05	10/15/21 19:40	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		10/14/21 18:05	10/15/21 19:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*103*		*83 - 122*	*10/14/21 18:05*	*10/15/21 19:40*	*1*

Lab Sample ID: LCS 280-553608/2-A
Matrix: Solid
Analysis Batch: 553760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553608

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	1.052		mg/Kg		105	80 - 120		
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	1.029		mg/Kg		103	80 - 124		
2,4,6-Trinitrotoluene			1.00	1.103		mg/Kg		110	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dinitrobenzene	*106*		*83 - 122*

Lab Sample ID: 860-13162-7 MS
Matrix: Solid
Analysis Batch: 553760

Client Sample ID: Cell19-77-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 553608

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	0.0210	U	0.932	0.9198		mg/Kg		99	80 - 120		
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0398	U	0.932	0.8822		mg/Kg		95	80 - 124		
2,4,6-Trinitrotoluene	0.0284	U	0.932	0.9883		mg/Kg		106	80 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dinitrobenzene	*101*		*83 - 122*

QC Sample Results

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

Job ID: 860-13162-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: 860-13162-7 MSD
Matrix: Solid
Analysis Batch: 553760

Client Sample ID: Cell19-77-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 553608

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	0.0210	U	0.939	0.9516		mg/Kg		101	80 - 120	3	30
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0398	U	0.939	0.9165		mg/Kg		98	80 - 124	4	30
2,4,6-Trinitrotoluene	0.0284	U	0.939	1.020		mg/Kg		109	80 - 120	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*104*		*83 - 122*

Lab Sample ID: 860-13162-7 DU
Matrix: Solid
Analysis Batch: 553760

Client Sample ID: Cell19-77-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 553608

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	0.0210	U		0.0211	U	mg/Kg				NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0398	U		0.0400	U	mg/Kg				NC	20
2,4,6-Trinitrotoluene	0.0284	U		0.0285	U	mg/Kg				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
1,2-Dinitrobenzene	*104*		*83 - 122*

Lab Sample ID: 860-13162-7 TRL
Matrix: Solid
Analysis Batch: 553760

Client Sample ID: Cell19-77-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 553608

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	0.0210	U		0.0209	U	mg/Kg				NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0398	U		0.0395	U	mg/Kg				NC	20
2,4,6-Trinitrotoluene	0.0284	U		0.0282	U	mg/Kg				NC	20

Surrogate	*TRL %Recovery*	*TRL Qualifier*	*Limits*
1,2-Dinitrobenzene	*103*		*83 - 122*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-25674/1-A
Matrix: Solid
Analysis Batch: 25563

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25674

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		10/07/21 16:10	10/07/21 23:47	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		10/07/21 16:10	10/07/21 23:47	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		10/07/21 16:10	10/07/21 23:47	1
Nitrite as N	0.0500	U	1.00	0.0500	mg/Kg		10/07/21 16:10	10/07/21 23:47	1
Nitrate Nitrite as N	0.02769	J	1.00	0.00500	mg/Kg		10/07/21 16:10	10/07/21 23:47	1

QC Sample Results

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

Job ID: 860-13162-1

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

Lab Sample ID: MB 860-25674/1-A
Matrix: Solid
Analysis Batch: 25563

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25674

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	4.32	U	10.0	4.32	mg/Kg		10/07/21 16:10	10/07/21 23:47	1

Lab Sample ID: LCS 860-25674/2-A
Matrix: Solid
Analysis Batch: 25563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25674

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			100	97.02		mg/Kg		97	80 - 120		
Nitrate as N			100	97.00		mg/Kg		97	80 - 120		
Fluoride			100	104.6		mg/Kg		105	80 - 120		
Nitrite as N			50.0	52.62		mg/Kg		105	80 - 120		
Sulfate			100	103.0		mg/Kg		103	80 - 120		

Lab Sample ID: LCSD 860-25674/3-A
Matrix: Solid
Analysis Batch: 25563

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25674

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	97.88		mg/Kg		98	80 - 120	1	20
Nitrate as N			100	98.34		mg/Kg		98	80 - 120	1	20
Fluoride			100	105.2		mg/Kg		105	80 - 120	1	20
Nitrite as N			50.0	52.97		mg/Kg		106	80 - 120	1	20
Sulfate			100	98.97		mg/Kg		99	80 - 120	4	20

Lab Sample ID: 860-13162-1 MS
Matrix: Solid
Analysis Batch: 25563

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 25674

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	10.7		100	103.8		mg/Kg		93	80 - 120		
Nitrate as N	7.13		100	102.6		mg/Kg		95	80 - 120		
Fluoride	4.03	J	100	101.5		mg/Kg		97	80 - 120		
Nitrite as N	0.591	J	50.2	52.45		mg/Kg		103	80 - 120		
Sulfate	454		100	550.0	4	mg/Kg		95	80 - 120		

Lab Sample ID: 860-13162-1 MSD
Matrix: Solid
Analysis Batch: 25563

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 25674

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.7		102	105.5		mg/Kg		93	80 - 120	2	20
Nitrate as N	7.13		102	104.0		mg/Kg		95	80 - 120	1	15
Fluoride	4.03	J	102	103.7		mg/Kg		98	80 - 120	2	20
Nitrite as N	0.591	J	50.9	53.27		mg/Kg		103	80 - 120	2	15
Sulfate	454		102	558.1	4	mg/Kg		102	80 - 120	1	20

QC Sample Results

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

Job ID: 860-13162-1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-552785/12
Matrix: Solid
Analysis Batch: 552785

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	0.04905	J	ug/L		98	70 - 130

Lab Sample ID: MB 280-553021/1-A
Matrix: Solid
Analysis Batch: 553306

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553021

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		10/11/21 13:18	10/12/21 13:56	1

Lab Sample ID: LCS 280-553021/2-A
Matrix: Solid
Analysis Batch: 553306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553021

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5126		ug/Kg		103	80 - 120

Lab Sample ID: 860-13162-7 MS
Matrix: Solid
Analysis Batch: 553306

Client Sample ID: Cell19-77-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 553021

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.195	J	0.478	0.6478		ug/Kg		95	70 - 130

Lab Sample ID: 860-13162-7 MSD
Matrix: Solid
Analysis Batch: 553306

Client Sample ID: Cell19-77-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 553021

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	0.195	J	0.459	0.6367		ug/Kg		96	70 - 130	2	15

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-539536/13
Matrix: Solid
Analysis Batch: 539536

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	0.5103	J	ug/L		102	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4771	J	ug/L		105	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		96	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*106*		*57 - 153*
13C8 PFOS	*100*		*70 - 130*

QC Sample Results

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

Job ID: 860-13162-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 280-553234/1-A
Matrix: Solid
Analysis Batch: 553683

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553234

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		10/13/21 10:29	10/15/21 09:09	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		10/13/21 10:29	10/15/21 09:09	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		10/13/21 10:29	10/15/21 09:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*103*		*57 - 153*	*10/13/21 10:29*	*10/15/21 09:09*	*1*
13C8 PFOS	*103*		*70 - 130*	*10/13/21 10:29*	*10/15/21 09:09*	*1*

Lab Sample ID: LCS 280-553234/2-A
Matrix: Solid
Analysis Batch: 553683

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	18.03		ug/Kg		90	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	16.69		ug/Kg		92	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	18.52		ug/Kg		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*103*		*57 - 153*
13C8 PFOS	*100*		*70 - 130*

Lab Sample ID: 860-13162-1 MS
Matrix: Solid
Analysis Batch: 553683

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 553234

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.227	U	18.7	16.99		ug/Kg		91	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	0.277	U	17.0	15.61		ug/Kg		92	70 - 135
Perfluorooctanesulfonic acid (PFOS)	0.138	U	17.4	17.45		ug/Kg		101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
13C8 PFOA	*99*		*57 - 153*
13C8 PFOS	*100*		*70 - 130*

Lab Sample ID: 860-13162-1 MSD
Matrix: Solid
Analysis Batch: 553683

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 553234

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	18.2	16.50		ug/Kg		91	70 - 131	3	30
Perfluorohexanesulfonic acid (PFHxS)	0.277	U	16.6	15.98		ug/Kg		96	70 - 135	2	30
Perfluorooctanesulfonic acid (PFOS)	0.138	U	16.9	16.75		ug/Kg		99	70 - 130	4	30

QC Sample Results

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

Job ID: 860-13162-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 860-13162-1 MSD
Matrix: Solid
Analysis Batch: 553683

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 553234

Surrogate	MSD %Recovery	MSD Qualifier	Limits
13C8 PFOA	101		57 - 153
13C8 PFOS	104		70 - 130

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-26179/1-A
Matrix: Solid
Analysis Batch: 26339

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26179

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0159	U	0.200	0.0159	mg/Kg		10/12/21 10:42	10/12/21 17:49	1
Arsenic	0.0617	U	0.400	0.0617	mg/Kg		10/12/21 10:42	10/12/21 17:49	1
Barium	0.0347	U	0.400	0.0347	mg/Kg		10/12/21 10:42	10/12/21 17:49	1
Beryllium	0.0185	U	0.200	0.0185	mg/Kg		10/12/21 10:42	10/12/21 17:49	1
Cadmium	0.0116	U	0.200	0.0116	mg/Kg		10/12/21 10:42	10/12/21 17:49	1
Chromium	0.0271	U	0.400	0.0271	mg/Kg		10/12/21 10:42	10/12/21 17:49	1
Copper	0.0261	U	0.400	0.0261	mg/Kg		10/12/21 10:42	10/12/21 17:49	1
Iron	0.234	U	2.00	0.234	mg/Kg		10/12/21 10:42	10/12/21 17:49	1
Manganese	0.0255	U	0.200	0.0255	mg/Kg		10/12/21 10:42	10/12/21 17:49	1
Lead	0.0194	U	0.200	0.0194	mg/Kg		10/12/21 10:42	10/12/21 17:49	1
Antimony	0.0119	U	0.200	0.0119	mg/Kg		10/12/21 10:42	10/12/21 17:49	1
Selenium	0.0496	U	0.200	0.0496	mg/Kg		10/12/21 10:42	10/12/21 17:49	1
Thallium	0.0239	U	0.200	0.0239	mg/Kg		10/12/21 10:42	10/12/21 17:49	1
Uranium	0.00598	U	0.100	0.00598	mg/Kg		10/12/21 10:42	10/12/21 17:49	1

Lab Sample ID: MB 860-26179/1-A
Matrix: Solid
Analysis Batch: 26409

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26179

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.0443	U	0.400	0.0443	mg/Kg		10/12/21 10:42	10/13/21 11:07	1

Lab Sample ID: LCS 860-26179/2-A
Matrix: Solid
Analysis Batch: 26339

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26179

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	5.00	4.810		mg/Kg		96	80 - 120
Arsenic	10.0	9.452		mg/Kg		95	80 - 120
Barium	10.0	9.370		mg/Kg		94	80 - 120
Beryllium	10.0	9.417		mg/Kg		94	80 - 120
Cadmium	10.0	9.458		mg/Kg		95	80 - 120
Chromium	10.0	9.359		mg/Kg		94	80 - 120
Copper	10.0	9.241		mg/Kg		92	80 - 120
Iron	50.0	47.53		mg/Kg		95	80 - 120
Manganese	10.0	10.08		mg/Kg		101	80 - 120
Lead	10.0	9.259		mg/Kg		93	80 - 120
Antimony	10.0	9.433		mg/Kg		94	80 - 120
Selenium	10.0	9.273		mg/Kg		93	80 - 120

QC Sample Results

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

Job ID: 860-13162-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-26179/2-A
Matrix: Solid
Analysis Batch: 26339

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26179

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	10.0	9.348		mg/Kg		93	80 - 120
Uranium	2.50	2.299		mg/Kg		92	80 - 120

Lab Sample ID: LCS 860-26179/2-A
Matrix: Solid
Analysis Batch: 26409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26179

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	10.0	11.00		mg/Kg		110	80 - 120

Lab Sample ID: LCSD 860-26179/3-A
Matrix: Solid
Analysis Batch: 26339

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26179

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.90	4.736		mg/Kg		97	80 - 120	2	20
Arsenic	9.80	9.314		mg/Kg		95	80 - 120	1	20
Barium	9.80	9.182		mg/Kg		94	80 - 120	2	20
Beryllium	9.80	9.307		mg/Kg		95	80 - 120	1	20
Cadmium	9.80	9.250		mg/Kg		94	80 - 120	2	20
Chromium	9.80	9.185		mg/Kg		94	80 - 120	2	20
Copper	9.80	9.098		mg/Kg		93	80 - 120	2	20
Iron	49.0	46.77		mg/Kg		95	80 - 120	2	20
Manganese	9.80	9.851		mg/Kg		100	80 - 120	2	20
Lead	9.80	9.053		mg/Kg		92	80 - 120	2	20
Antimony	9.80	9.329		mg/Kg		95	80 - 120	1	20
Selenium	9.80	9.233		mg/Kg		94	80 - 120	0	20
Thallium	9.80	9.155		mg/Kg		93	80 - 120	2	20
Uranium	2.45	2.256		mg/Kg		92	80 - 120	2	20

Lab Sample ID: LCSD 860-26179/3-A
Matrix: Solid
Analysis Batch: 26409

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26179

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	9.80	10.02		mg/Kg		102	80 - 120	9	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-25555/10-A
Matrix: Solid
Analysis Batch: 25653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25555

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000769	U	0.000400	0.0000769	mg/Kg		10/07/21 12:20	10/07/21 14:02	1

QC Sample Results

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

Job ID: 860-13162-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 860-25555/11-A
Matrix: Solid
Analysis Batch: 25653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25555

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00400	0.004090		mg/Kg		102	80 - 120		

Lab Sample ID: LCSD 860-25555/12-A
Matrix: Solid
Analysis Batch: 25653

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25555

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.00400	0.004032		mg/Kg		101	80 - 120	1	20

Lab Sample ID: 860-13162-1 MS
Matrix: Solid
Analysis Batch: 25653

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 25555

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.00377	U	0.182	0.1815		mg/Kg		100	75 - 125		

Lab Sample ID: 860-13162-1 MSD
Matrix: Solid
Analysis Batch: 25653

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 25555

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00377	U	0.182	0.1836		mg/Kg		101	75 - 125	1	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-27194/4-A
Matrix: Solid
Analysis Batch: 27283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		10/19/21 13:27	10/19/21 15:17	1

Lab Sample ID: LCS 860-27194/5-A
Matrix: Solid
Analysis Batch: 27283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27194

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			100	99.21		ug/Kg		99	90 - 110		

Lab Sample ID: LLCS 860-27194/6-A
Matrix: Solid
Analysis Batch: 27283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27194

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			50.0	47.56		ug/Kg		95	90 - 110		

QC Sample Results

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

Job ID: 860-13162-1

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: 860-13162-1 MS
Matrix: Solid
Analysis Batch: 27283

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 27194

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	29.8	U	2400	2387		ug/Kg		99	90 - 110

Lab Sample ID: 860-13162-1 MSD
Matrix: Solid
Analysis Batch: 27283

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 27194

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	29.8	U	2400	2294		ug/Kg		96	90 - 110	4	20

Method: 9045D - pH

Lab Sample ID: 860-13162-1 DU
Matrix: Solid
Analysis Batch: 25601

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.8		8.8		SU		0.5	20

Lab Sample ID: 860-13162-6 DU
Matrix: Solid
Analysis Batch: 25601

Client Sample ID: Cell19-80-S-3-4-211005
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	9.1		9.1		SU		0.7	20

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-27528/1-A
Matrix: Solid
Analysis Batch: 27788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0599	U	0.0999	0.0599	mg/Kg		10/21/21 08:30	10/22/21 10:21	1

Lab Sample ID: LCS 860-27528/2-A
Matrix: Solid
Analysis Batch: 27788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.998	1.001		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 860-27528/3-A
Matrix: Solid
Analysis Batch: 27788

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27528

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	0.996	1.013		mg/Kg		102	90 - 110	1	20

QC Sample Results

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

Job ID: 860-13162-1

Method: 9066 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: 860-13162-1 MS
Matrix: Solid
Analysis Batch: 27788

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 27528

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.0594	U	0.940	0.9142		mg/Kg		97	90 - 110

Lab Sample ID: 860-13162-1 MSD
Matrix: Solid
Analysis Batch: 27788

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 27528

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	0.0594	U	0.968	0.9691		mg/Kg		100	90 - 110	6	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-190117/1
Matrix: Solid
Analysis Batch: 190117

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			10/21/21 15:00	1

Lab Sample ID: LCS 560-190117/2
Matrix: Solid
Analysis Batch: 190117

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	2092		mg/L		93	90 - 110

Lab Sample ID: 860-13162-1 DU
Matrix: Solid
Analysis Batch: 190117

Client Sample ID: Cell20-157-S-3-4-211005
Prep Type: 7 Day Leach

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	285		273.0		mg/L		4	20

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-530649/1-A
Matrix: Solid
Analysis Batch: 535199

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 530649

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.06312	U	0.0650	0.0654	1.00	0.0999	pCi/g	10/11/21 10:41	11/05/21 07:56	1
Radium-228	0.06269	U	0.135	0.136		0.165	pCi/g	10/11/21 10:41	11/05/21 07:56	1
Combined Radium 226 + 228	0.1258	U	0.150	0.151		0.165	pCi/g	10/11/21 10:41	11/05/21 07:56	1

QC Sample Results

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

Job ID: 860-13162-1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: LCS 160-530649/2-A
Matrix: Solid
Analysis Batch: 535200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530649

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Americium-241			96.3	103.0		12.1		1.22	pCi/g	107	87 - 116		
Cesium-137			26.2	29.28		3.08		0.235	pCi/g	112	87 - 120		
Cobalt-60			8.42	9.492		1.06		0.134	pCi/g	113	87 - 115		

Lab Sample ID: 860-13162-7 DU
Matrix: Solid
Analysis Batch: 535201

Client Sample ID: Cell19-77-S-3-4-211005
Prep Type: Total/NA
Prep Batch: 530649

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.590			0.7056		0.144	1.00	0.0822	pCi/g			0.36	1
Radium-228	0.0843	U		0.1487		0.125		0.128	pCi/g			0.19	1
Combined Radium 226 + 228	0.675			0.8543		0.191		0.128	pCi/g			0.38	1

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 26001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	5035	
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	5035	
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	5035	
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	5035	
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	5035	
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	5035	
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	5035	

Analysis Batch: 27086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	8260D SIM	26001
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	8260D SIM	26001
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	8260D SIM	26001
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	8260D SIM	26001
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	8260D SIM	26001
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	8260D SIM	26001
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	8260D SIM	26001
MB 860-27086/9	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-27086/3	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-27086/4	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	
860-13162-1 MS	Cell20-157-S-3-4-211005	Total/NA	Solid	8260D SIM	

Analysis Batch: 189770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	8260B	
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	8260B	
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	8260B	
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	8260B	
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	8260B	
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	8260B	
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	8260B	
MB 560-189770/8	Method Blank	Total/NA	Solid	8260B	
LCS 560-189770/3	Lab Control Sample	Total/NA	Solid	8260B	
860-13162-1 MS	Cell20-157-S-3-4-211005	Total/NA	Solid	8260B	
860-13162-1 MSD	Cell20-157-S-3-4-211005	Total/NA	Solid	8260B	

GC/MS Semi VOA

Analysis Batch: 25955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	8270D	25960
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	8270D	25960
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	8270D	25960
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	8270D	25960
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	8270D	25960
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	8270D	25960
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	8270D	25960
MB 860-25960/1-A	Method Blank	Total/NA	Solid	8270D	25960
LCS 860-25960/2-A	Lab Control Sample	Total/NA	Solid	8270D	25960
LCSD 860-25960/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	25960
860-13162-1 MS	Cell20-157-S-3-4-211005	Total/NA	Solid	8270D	25960

QC Association Summary

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

Job ID: 860-13162-1

GC/MS Semi VOA (Continued)

Analysis Batch: 25955 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1 MSD	Cell20-157-S-3-4-211005	Total/NA	Solid	8270D	25960

Prep Batch: 25960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	3550C	
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	3550C	
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	3550C	
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	3550C	
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	3550C	
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	3550C	
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	3550C	
MB 860-25960/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-25960/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-25960/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-13162-1 MS	Cell20-157-S-3-4-211005	Total/NA	Solid	3550C	
860-13162-1 MSD	Cell20-157-S-3-4-211005	Total/NA	Solid	3550C	

Prep Batch: 552164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	3546	
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	3546	
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	3546	
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	3546	
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	3546	
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	3546	
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	3546	
MB 400-552164/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-552164/2-A	Lab Control Sample	Total/NA	Solid	3546	
860-13162-1 MS	Cell20-157-S-3-4-211005	Total/NA	Solid	3546	
860-13162-1 MSD	Cell20-157-S-3-4-211005	Total/NA	Solid	3546	

Analysis Batch: 552737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	8270D	552164
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	8270D	552164
MB 400-552164/1-A	Method Blank	Total/NA	Solid	8270D	552164
860-13162-1 MS	Cell20-157-S-3-4-211005	Total/NA	Solid	8270D	552164
860-13162-1 MSD	Cell20-157-S-3-4-211005	Total/NA	Solid	8270D	552164

Analysis Batch: 552998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	8270D	552164
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	8270D	552164
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	8270D	552164
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	8270D	552164
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	8270D	552164
LCS 400-552164/2-A	Lab Control Sample	Total/NA	Solid	8270D	552164

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Analysis Batch: 25575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	8015B NM	25602
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	8015B NM	25602
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	8015B NM	25602
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	8015B NM	25602
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	8015B NM	25602
MB 860-25602/1-A	Method Blank	Total/NA	Solid	8015B NM	25602
LCS 860-25602/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25602
LCSD 860-25602/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25602
860-13162-3 MS	Cell20-47-S-3-4-211005	Total/NA	Solid	8015B NM	25602
860-13162-3 MSD	Cell20-47-S-3-4-211005	Total/NA	Solid	8015B NM	25602

Prep Batch: 25602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	8015NM Prep	
860-13162-2 - RA	Cell20-132-S-3-4-211005	Total/NA	Solid	8015NM Prep	
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	8015NM Prep	
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	8015NM Prep	
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	8015NM Prep	
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	8015NM Prep	
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	8015NM Prep	
MB 860-25602/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-25602/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-25602/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
860-13162-3 MS	Cell20-47-S-3-4-211005	Total/NA	Solid	8015NM Prep	
860-13162-3 MSD	Cell20-47-S-3-4-211005	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-2 - RA	Cell20-132-S-3-4-211005	Total/NA	Solid	8015B NM	25602
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	8015B NM	25602

Prep Batch: 25978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	3550C	
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	3550C	
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	3550C	
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	3550C	
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	3550C	
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	3550C	
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	3550C	
MB 860-25978/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-25978/17-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-25978/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-25978/18-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-25978/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 26234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	8082A	25978
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	8082A	25978
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	8082A	25978

QC Association Summary

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

Job ID: 860-13162-1

GC Semi VOA (Continued)

Analysis Batch: 26234 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	8082A	25978
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	8082A	25978
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	8082A	25978
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	8082A	25978
MB 860-25978/1-A	Method Blank	Total/NA	Solid	8082A	25978
LCS 860-25978/17-A	Lab Control Sample	Total/NA	Solid	8082A	25978
LCSD 860-25978/18-A	Lab Control Sample Dup	Total/NA	Solid	8082A	25978

Analysis Batch: 26526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	8081B	25978
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	8081B	25978
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	8081B	25978
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	8081B	25978
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	8081B	25978
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	8081B	25978
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	8081B	25978
MB 860-25978/1-A	Method Blank	Total/NA	Solid	8081B	25978
LCS 860-25978/2-A	Lab Control Sample	Total/NA	Solid	8081B	25978
LCSD 860-25978/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	25978

HPLC/IC

Analysis Batch: 25563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	9056A	25674
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	9056A	25674
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	9056A	25674
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	9056A	25674
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	9056A	25674
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	9056A	25674
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	9056A	25674
MB 860-25674/1-A	Method Blank	Total/NA	Solid	9056A	25674
LCS 860-25674/2-A	Lab Control Sample	Total/NA	Solid	9056A	25674
LCSD 860-25674/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	25674
860-13162-1 MS	Cell20-157-S-3-4-211005	Total/NA	Solid	9056A	25674
860-13162-1 MSD	Cell20-157-S-3-4-211005	Total/NA	Solid	9056A	25674

Analysis Batch: 25564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	9056A	25674
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	9056A	25674
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	9056A	25674
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	9056A	25674
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	9056A	25674
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	9056A	25674
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	9056A	25674
MB 860-25674/1-A	Method Blank	Total/NA	Solid	9056A	25674
LCS 860-25674/2-A	Lab Control Sample	Total/NA	Solid	9056A	25674
LCSD 860-25674/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	25674
860-13162-1 MS	Cell20-157-S-3-4-211005	Total/NA	Solid	9056A	25674

QC Association Summary

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

Job ID: 860-13162-1

HPLC/IC (Continued)

Analysis Batch: 25564 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1 MSD	Cell20-157-S-3-4-211005	Total/NA	Solid	9056A	25674

Prep Batch: 25674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	300_Prep	
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	300_Prep	
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	300_Prep	
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	300_Prep	
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	300_Prep	
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	300_Prep	
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	300_Prep	
MB 860-25674/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-25674/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-25674/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-13162-1 MS	Cell20-157-S-3-4-211005	Total/NA	Solid	300_Prep	
860-13162-1 MSD	Cell20-157-S-3-4-211005	Total/NA	Solid	300_Prep	

ISM Prep Batch: 553176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	Increment, prep	
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	Increment, prep	
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	Increment, prep	
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	Increment, prep	
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	Increment, prep	
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	Increment, prep	
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	Increment, prep	
860-13162-7 MS	Cell19-77-S-3-4-211005	Total/NA	Solid	Increment, prep	
860-13162-7 MSD	Cell19-77-S-3-4-211005	Total/NA	Solid	Increment, prep	
860-13162-7 DU	Cell19-77-S-3-4-211005	Total/NA	Solid	Increment, prep	
860-13162-7 TRL	Cell19-77-S-3-4-211005	Total/NA	Solid	Increment, prep	

Prep Batch: 553608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	8330B	553176
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	8330B	553176
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	8330B	553176
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	8330B	553176
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	8330B	553176
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	8330B	553176
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	8330B	553176
MB 280-553608/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-553608/2-A	Lab Control Sample	Total/NA	Solid	8330B	
860-13162-7 MS	Cell19-77-S-3-4-211005	Total/NA	Solid	8330B	553176
860-13162-7 MSD	Cell19-77-S-3-4-211005	Total/NA	Solid	8330B	553176
860-13162-7 DU	Cell19-77-S-3-4-211005	Total/NA	Solid	8330B	553176
860-13162-7 TRL	Cell19-77-S-3-4-211005	Total/NA	Solid	8330B	553176

Analysis Batch: 553760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	8330B	553608
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	8330B	553608

QC Association Summary

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

Job ID: 860-13162-1

HPLC/IC (Continued)

Analysis Batch: 553760 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	8330B	553608
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	8330B	553608
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	8330B	553608
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	8330B	553608
MB 280-553608/1-A	Method Blank	Total/NA	Solid	8330B	553608
LCS 280-553608/2-A	Lab Control Sample	Total/NA	Solid	8330B	553608
860-13162-7 MS	Cell19-77-S-3-4-211005	Total/NA	Solid	8330B	553608
860-13162-7 MSD	Cell19-77-S-3-4-211005	Total/NA	Solid	8330B	553608
860-13162-7 DU	Cell19-77-S-3-4-211005	Total/NA	Solid	8330B	553608
860-13162-7 TRL	Cell19-77-S-3-4-211005	Total/NA	Solid	8330B	553608

Analysis Batch: 553821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	8330B	553608

LCMS

Analysis Batch: 539536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-539536/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 552785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-552785/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 553021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	6860	
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	6860	
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	6860	
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	6860	
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	6860	
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	6860	
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	6860	
MB 280-553021/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-553021/2-A	Lab Control Sample	Total/NA	Solid	6860	
860-13162-7 MS	Cell19-77-S-3-4-211005	Total/NA	Solid	6860	
860-13162-7 MSD	Cell19-77-S-3-4-211005	Total/NA	Solid	6860	

Prep Batch: 553234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	PFC leach	
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	PFC leach	
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	PFC leach	
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	PFC leach	
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	PFC leach	
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	PFC leach	
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	PFC leach	
MB 280-553234/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-553234/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	
860-13162-1 MS	Cell20-157-S-3-4-211005	Total/NA	Solid	PFC leach	

QC Association Summary

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

Job ID: 860-13162-1

LCMS (Continued)

Prep Batch: 553234 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1 MSD	Cell20-157-S-3-4-211005	Total/NA	Solid	PFC leach	

Analysis Batch: 553306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	6860	553021
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	6860	553021
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	6860	553021
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	6860	553021
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	6860	553021
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	6860	553021
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	6860	553021
MB 280-553021/1-A	Method Blank	Total/NA	Solid	6860	553021
LCS 280-553021/2-A	Lab Control Sample	Total/NA	Solid	6860	553021
860-13162-7 MS	Cell19-77-S-3-4-211005	Total/NA	Solid	6860	553021
860-13162-7 MSD	Cell19-77-S-3-4-211005	Total/NA	Solid	6860	553021

Analysis Batch: 553683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	DV-LC-0012	553234
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	DV-LC-0012	553234
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	DV-LC-0012	553234
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	DV-LC-0012	553234
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	DV-LC-0012	553234
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	DV-LC-0012	553234
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	DV-LC-0012	553234
MB 280-553234/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	553234
LCS 280-553234/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	553234
860-13162-1 MS	Cell20-157-S-3-4-211005	Total/NA	Solid	DV-LC-0012	553234
860-13162-1 MSD	Cell20-157-S-3-4-211005	Total/NA	Solid	DV-LC-0012	553234

Metals

Prep Batch: 25555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	7471A	
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	7471A	
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	7471A	
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	7471A	
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	7471A	
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	7471A	
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	7471A	
MB 860-25555/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-25555/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-25555/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-13162-1 MS	Cell20-157-S-3-4-211005	Total/NA	Solid	7471A	
860-13162-1 MSD	Cell20-157-S-3-4-211005	Total/NA	Solid	7471A	

Analysis Batch: 25653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	7471A	25555
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	7471A	25555

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Metals (Continued)

Analysis Batch: 25653 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	7471A	25555
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	7471A	25555
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	7471A	25555
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	7471A	25555
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	7471A	25555
MB 860-25555/10-A	Method Blank	Total/NA	Solid	7471A	25555
LCS 860-25555/11-A	Lab Control Sample	Total/NA	Solid	7471A	25555
LCSD 860-25555/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	25555
860-13162-1 MS	Cell20-157-S-3-4-211005	Total/NA	Solid	7471A	25555
860-13162-1 MSD	Cell20-157-S-3-4-211005	Total/NA	Solid	7471A	25555

Prep Batch: 26179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	3051A	
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	3051A	
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	3051A	
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	3051A	
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	3051A	
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	3051A	
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	3051A	
MB 860-26179/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-26179/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-26179/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 26339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	6020A	26179
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	6020A	26179
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	6020A	26179
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	6020A	26179
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	6020A	26179
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	6020A	26179
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	6020A	26179
MB 860-26179/1-A	Method Blank	Total/NA	Solid	6020A	26179
LCS 860-26179/2-A	Lab Control Sample	Total/NA	Solid	6020A	26179
LCSD 860-26179/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	26179

Analysis Batch: 26409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	6020A	26179
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	6020A	26179
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	6020A	26179
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	6020A	26179
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	6020A	26179
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	6020A	26179
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	6020A	26179
MB 860-26179/1-A	Method Blank	Total/NA	Solid	6020A	26179
LCS 860-26179/2-A	Lab Control Sample	Total/NA	Solid	6020A	26179
LCSD 860-26179/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	26179

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Leach Batch: 25597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Soluble	Solid	DI Leach	
860-13162-2	Cell20-132-S-3-4-211005	Soluble	Solid	DI Leach	
860-13162-3	Cell20-47-S-3-4-211005	Soluble	Solid	DI Leach	
860-13162-4	Cell20-51-S-3-4-211005	Soluble	Solid	DI Leach	
860-13162-5	Cell19-104-S-3-4-211005	Soluble	Solid	DI Leach	
860-13162-6	Cell19-80-S-3-4-211005	Soluble	Solid	DI Leach	
860-13162-7	Cell19-77-S-3-4-211005	Soluble	Solid	DI Leach	
860-13162-1 DU	Cell20-157-S-3-4-211005	Soluble	Solid	DI Leach	
860-13162-6 DU	Cell19-80-S-3-4-211005	Soluble	Solid	DI Leach	

Analysis Batch: 25601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Soluble	Solid	9045D	25597
860-13162-2	Cell20-132-S-3-4-211005	Soluble	Solid	9045D	25597
860-13162-3	Cell20-47-S-3-4-211005	Soluble	Solid	9045D	25597
860-13162-4	Cell20-51-S-3-4-211005	Soluble	Solid	9045D	25597
860-13162-5	Cell19-104-S-3-4-211005	Soluble	Solid	9045D	25597
860-13162-6	Cell19-80-S-3-4-211005	Soluble	Solid	9045D	25597
860-13162-7	Cell19-77-S-3-4-211005	Soluble	Solid	9045D	25597
860-13162-1 DU	Cell20-157-S-3-4-211005	Soluble	Solid	9045D	25597
860-13162-6 DU	Cell19-80-S-3-4-211005	Soluble	Solid	9045D	25597

Analysis Batch: 26153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	Moisture - 2540	
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	Moisture - 2540	
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	Moisture - 2540	
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	Moisture - 2540	
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	Moisture - 2540	
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	Moisture - 2540	
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	Moisture - 2540	
MB 860-26153/1	Method Blank	Total/NA	Solid	Moisture - 2540	
860-13162-1 DU	Cell20-157-S-3-4-211005	Total/NA	Solid	Moisture - 2540	

Analysis Batch: 26181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-26181/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Analysis Batch: 26186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-26186/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Prep Batch: 27194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	9012A	
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	9012A	
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	9012A	
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	9012A	
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	9012A	
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	9012A	
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	9012A	

QC Association Summary

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

Job ID: 860-13162-1

General Chemistry (Continued)

Prep Batch: 27194 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-27194/4-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-27194/5-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-27194/6-A	Lab Control Sample	Total/NA	Solid	9012A	
860-13162-1 MS	Cell20-157-S-3-4-211005	Total/NA	Solid	9012A	
860-13162-1 MSD	Cell20-157-S-3-4-211005	Total/NA	Solid	9012A	

Analysis Batch: 27283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	9012A	27194
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	9012A	27194
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	9012A	27194
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	9012A	27194
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	9012A	27194
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	9012A	27194
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	9012A	27194
MB 860-27194/4-A	Method Blank	Total/NA	Solid	9012A	27194
LCS 860-27194/5-A	Lab Control Sample	Total/NA	Solid	9012A	27194
LLCS 860-27194/6-A	Lab Control Sample	Total/NA	Solid	9012A	27194
860-13162-1 MS	Cell20-157-S-3-4-211005	Total/NA	Solid	9012A	27194
860-13162-1 MSD	Cell20-157-S-3-4-211005	Total/NA	Solid	9012A	27194

Prep Batch: 27528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	Distill/Phenol	
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	Distill/Phenol	
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	Distill/Phenol	
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	Distill/Phenol	
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	Distill/Phenol	
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	Distill/Phenol	
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	Distill/Phenol	
MB 860-27528/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-27528/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-27528/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	
860-13162-1 MS	Cell20-157-S-3-4-211005	Total/NA	Solid	Distill/Phenol	
860-13162-1 MSD	Cell20-157-S-3-4-211005	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 27788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	9066	27528
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	9066	27528
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	9066	27528
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	9066	27528
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	9066	27528
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	9066	27528
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	9066	27528
MB 860-27528/1-A	Method Blank	Total/NA	Solid	9066	27528
LCS 860-27528/2-A	Lab Control Sample	Total/NA	Solid	9066	27528
LCSD 860-27528/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	27528
860-13162-1 MS	Cell20-157-S-3-4-211005	Total/NA	Solid	9066	27528
860-13162-1 MSD	Cell20-157-S-3-4-211005	Total/NA	Solid	9066	27528

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Leach Batch: 189844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	7 Day Leach	Solid	335.521	
860-13162-2	Cell20-132-S-3-4-211005	7 Day Leach	Solid	335.521	
860-13162-3	Cell20-47-S-3-4-211005	7 Day Leach	Solid	335.521	
860-13162-4	Cell20-51-S-3-4-211005	7 Day Leach	Solid	335.521	
860-13162-5	Cell19-104-S-3-4-211005	7 Day Leach	Solid	335.521	
860-13162-6	Cell19-80-S-3-4-211005	7 Day Leach	Solid	335.521	
860-13162-7	Cell19-77-S-3-4-211005	7 Day Leach	Solid	335.521	
860-13162-1 DU	Cell20-157-S-3-4-211005	7 Day Leach	Solid	335.521	

Analysis Batch: 190117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	7 Day Leach	Solid	SM 2540C	189844
860-13162-2	Cell20-132-S-3-4-211005	7 Day Leach	Solid	SM 2540C	189844
860-13162-3	Cell20-47-S-3-4-211005	7 Day Leach	Solid	SM 2540C	189844
860-13162-4	Cell20-51-S-3-4-211005	7 Day Leach	Solid	SM 2540C	189844
860-13162-5	Cell19-104-S-3-4-211005	7 Day Leach	Solid	SM 2540C	189844
860-13162-6	Cell19-80-S-3-4-211005	7 Day Leach	Solid	SM 2540C	189844
860-13162-7	Cell19-77-S-3-4-211005	7 Day Leach	Solid	SM 2540C	189844
MB 560-190117/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-190117/2	Lab Control Sample	Total/NA	Solid	SM 2540C	
860-13162-1 DU	Cell20-157-S-3-4-211005	7 Day Leach	Solid	SM 2540C	189844

Rad

Leach Batch: 530534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	Dry and Grind	
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	Dry and Grind	
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	Dry and Grind	
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	Dry and Grind	
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	Dry and Grind	
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	Dry and Grind	
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	Dry and Grind	
860-13162-7 DU	Cell19-77-S-3-4-211005	Total/NA	Solid	Dry and Grind	

Prep Batch: 530649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13162-1	Cell20-157-S-3-4-211005	Total/NA	Solid	Fill_Geo-21	530534
860-13162-2	Cell20-132-S-3-4-211005	Total/NA	Solid	Fill_Geo-21	530534
860-13162-3	Cell20-47-S-3-4-211005	Total/NA	Solid	Fill_Geo-21	530534
860-13162-4	Cell20-51-S-3-4-211005	Total/NA	Solid	Fill_Geo-21	530534
860-13162-5	Cell19-104-S-3-4-211005	Total/NA	Solid	Fill_Geo-21	530534
860-13162-6	Cell19-80-S-3-4-211005	Total/NA	Solid	Fill_Geo-21	530534
860-13162-7	Cell19-77-S-3-4-211005	Total/NA	Solid	Fill_Geo-21	530534
MB 160-530649/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-530649/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
860-13162-7 DU	Cell19-77-S-3-4-211005	Total/NA	Solid	Fill_Geo-21	530534

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-157-S-3-4-211005
Lab Sample ID: 860-13162-1
Date Collected: 10/05/21 09:50
Matrix: Solid
Date Received: 10/06/21 11:03

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	5.18 g	5 mL	189770	10/12/21 12:49	RJT	XEN CC
Total/NA	Prep	3550C			30.02 g	1 mL	25960	10/11/21 09:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	25955	10/11/21 17:40	LPL	XEN STF
Total/NA	Prep	3546			15.26 g	1 mL	552164	10/19/21 16:25	BKL	TAL PEN
Total/NA	Analysis	8270D		2			552998	10/25/21 22:05	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	25602	10/07/21 11:41	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			25575	10/07/21 19:13	IS	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	25978	10/11/21 10:23	JN	XEN STF
Total/NA	Analysis	8081B		1			26526	10/14/21 12:45	WP	XEN STF
Total/NA	ISM Prep	Increment, prep					553176	10/12/21 10:18	EKB	TAL DEN
Total/NA	Prep	8330B			10.74 g	40 mL	553608	10/14/21 18:05	DCL	TAL DEN
Total/NA	Analysis	8330B		1			553760	10/15/21 20:25	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.05 g	50 mL	25674	10/07/21 16:10	ANP	XEN STF
Total/NA	Analysis	9056A		1			25563	10/08/21 00:21	WP	XEN STF
Total/NA	Prep	300_Prep			5.05 g	50 mL	25674	10/07/21 16:10	ANP	XEN STF
Total/NA	Analysis	9056A		1			25564	10/08/21 00:21	WP	XEN STF
Total/NA	Prep	6860			10.53 g	100 mL	553021	10/11/21 13:18	TEH	TAL DEN
Total/NA	Analysis	6860		1			553306	10/12/21 14:12	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.11 g	20 mL	553234	10/13/21 10:29	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553683	10/15/21 09:26	AGCM	TAL DEN
Total/NA	Prep	3051A			.55 g	50 mL	26179	10/12/21 10:43	PB	XEN STF
Total/NA	Analysis	6020A		10			26339	10/12/21 18:40	DCL	XEN STF
Total/NA	Prep	3051A			.55 g	50 mL	26179	10/12/21 10:43	PB	XEN STF
Total/NA	Analysis	6020A		10			26409	10/13/21 11:24	DCL	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	25555	10/07/21 12:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			25653	10/07/21 14:06	AV	XEN STF
Total/NA	Prep	9012A			0.4992 mL	6 mL	27194	10/19/21 13:27	YVD	XEN STF
Total/NA	Analysis	9012A		1			27283	10/19/21 15:22	YVD	XEN STF
Soluble	Leach	DI Leach			20.00 g	20 mL	25597	10/07/21 11:34	JP	XEN STF
Soluble	Analysis	9045D		1	20.00 g	20 mL	25601	10/07/21 11:40	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.0493 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 10:29	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26153	10/12/21 09:27	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189844	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	530534	10/08/21 09:52	LTC	TAL SL
Total/NA	Prep	Fill_Geo-21			410.5000 g	1.0 g	530649	10/11/21 10:41	DCH	TAL SL
Total/NA	Analysis	GA-01-R		1			535201	11/05/21 07:59	CAH	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-157-S-3-4-211005 Lab Sample ID: 860-13162-1

Date Collected: 10/05/21 09:50 **Matrix: Solid**
Date Received: 10/06/21 11:03 **Percent Solids: 91.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	26001	10/11/21 11:34	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27086	10/19/21 11:01	NA	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	25978	10/11/21 10:23	JN	XEN STF
Total/NA	Analysis	8082A		1			26234	10/13/21 00:17	JAL	XEN STF

Client Sample ID: Cell20-132-S-3-4-211005 Lab Sample ID: 860-13162-2

Date Collected: 10/05/21 10:22 **Matrix: Solid**
Date Received: 10/06/21 11:03

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	5.21 g	5 mL	189770	10/12/21 13:15	RJT	XEN CC
Total/NA	Prep	3550C			30.02 g	1 mL	25960	10/11/21 09:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	25955	10/11/21 21:21	LPL	XEN STF
Total/NA	Prep	3546			15.50 g	1 mL	552164	10/19/21 16:25	BKL	TAL PEN
Total/NA	Analysis	8270D		2			552737	10/23/21 15:16	PP1	TAL PEN
Total/NA	Prep	8015NM Prep	RA		10.08 g	10 mL	25602	10/07/21 11:41	SAR	XEN STF
Total/NA	Analysis	8015B NM	RA	1			25780	10/08/21 10:24	IS	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	25978	10/11/21 10:23	JN	XEN STF
Total/NA	Analysis	8081B		1			26526	10/14/21 13:01	WP	XEN STF
Total/NA	ISM Prep	Increment, prep					553176	10/12/21 10:18	EKB	TAL DEN
Total/NA	Prep	8330B			10.96 g	40 mL	553608	10/14/21 18:05	DCL	TAL DEN
Total/NA	Analysis	8330B		1			553760	10/15/21 20:48	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.96 g	50 mL	25674	10/07/21 16:10	ANP	XEN STF
Total/NA	Analysis	9056A		1			25563	10/08/21 00:54	WP	XEN STF
Total/NA	Prep	300_Prep			4.96 g	50 mL	25674	10/07/21 16:10	ANP	XEN STF
Total/NA	Analysis	9056A		1			25564	10/08/21 00:54	WP	XEN STF
Total/NA	Prep	6860			10.25 g	100 mL	553021	10/11/21 13:18	TEH	TAL DEN
Total/NA	Analysis	6860		1			553306	10/12/21 14:17	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.84 g	20 mL	553234	10/13/21 10:29	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553683	10/15/21 09:53	AGCM	TAL DEN
Total/NA	Prep	3051A			.55 g	50 mL	26179	10/12/21 10:43	PB	XEN STF
Total/NA	Analysis	6020A		10			26339	10/12/21 18:43	DCL	XEN STF
Total/NA	Prep	3051A			.55 g	50 mL	26179	10/12/21 10:43	PB	XEN STF
Total/NA	Analysis	6020A		10			26409	10/13/21 11:27	DCL	XEN STF
Total/NA	Prep	7471A			.54 g	50 mL	25555	10/07/21 12:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			25653	10/07/21 14:16	AV	XEN STF
Total/NA	Prep	9012A			0.4999 mL	6 mL	27194	10/19/21 13:27	YVD	XEN STF
Total/NA	Analysis	9012A		1			27283	10/19/21 15:26	YVD	XEN STF
Soluble	Leach	DI Leach			20.13 g	20 mL	25597	10/07/21 11:34	JP	XEN STF
Soluble	Analysis	9045D		1	20.13 g	20 mL	25601	10/07/21 11:40	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.1346 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 10:37	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26153	10/12/21 09:27	BM	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-132-S-3-4-211005 Lab Sample ID: 860-13162-2
Date Collected: 10/05/21 10:22 **Matrix: Solid**
Date Received: 10/06/21 11:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			250 g	1000 mL	189844	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	530534	10/08/21 09:52	LTC	TAL SL
Total/NA	Prep	Fill_Geo-21			417.7000 g	1.0 g	530649	10/11/21 10:41	DCH	TAL SL
Total/NA	Analysis	GA-01-R		1			535203	11/05/21 07:57	CAH	TAL SL

Client Sample ID: Cell20-132-S-3-4-211005 Lab Sample ID: 860-13162-2
Date Collected: 10/05/21 10:22 **Matrix: Solid**
Date Received: 10/06/21 11:03 **Percent Solids: 82.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	26001	10/11/21 11:34	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27086	10/19/21 11:18	NA	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	25978	10/11/21 10:23	JN	XEN STF
Total/NA	Analysis	8082A		1			26234	10/13/21 00:26	JAL	XEN STF

Client Sample ID: Cell20-47-S-3-4-211005 Lab Sample ID: 860-13162-3
Date Collected: 10/05/21 11:05 **Matrix: Solid**
Date Received: 10/06/21 11:03

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	5.27 g	5 mL	189770	10/12/21 13:40	RJT	XEN CC
Total/NA	Prep	3550C			30.02 g	1 mL	25960	10/11/21 09:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	25955	10/11/21 21:42	LPL	XEN STF
Total/NA	Prep	3546			15.30 g	1 mL	552164	10/19/21 16:25	BKL	TAL PEN
Total/NA	Analysis	8270D		2			552998	10/25/21 22:32	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25602	10/07/21 11:41	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			25575	10/07/21 19:49	IS	XEN STF
Total/NA	Prep	3550C			30.05 g	5 mL	25978	10/11/21 10:23	JN	XEN STF
Total/NA	Analysis	8081B		1			26526	10/14/21 13:17	WP	XEN STF
Total/NA	ISM Prep	Increment, prep					553176	10/12/21 10:18	EKB	TAL DEN
Total/NA	Prep	8330B			10.22 g	40 mL	553608	10/14/21 18:05	DCL	TAL DEN
Total/NA	Analysis	8330B		1			553760	10/15/21 21:11	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.98 g	50 mL	25674	10/07/21 16:10	ANP	XEN STF
Total/NA	Analysis	9056A		1			25563	10/08/21 01:05	WP	XEN STF
Total/NA	Prep	300_Prep			4.98 g	50 mL	25674	10/07/21 16:10	ANP	XEN STF
Total/NA	Analysis	9056A		1			25564	10/08/21 01:05	WP	XEN STF
Total/NA	Prep	6860			10.15 g	100 mL	553021	10/11/21 13:18	TEH	TAL DEN
Total/NA	Analysis	6860		1			553306	10/12/21 14:23	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.04 g	20 mL	553234	10/13/21 10:29	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553683	10/15/21 10:01	AGCM	TAL DEN
Total/NA	Prep	3051A			.51 g	50 mL	26179	10/12/21 10:43	PB	XEN STF
Total/NA	Analysis	6020A		10			26339	10/12/21 18:46	DCL	XEN STF
Total/NA	Prep	3051A			.51 g	50 mL	26179	10/12/21 10:43	PB	XEN STF
Total/NA	Analysis	6020A		10			26409	10/13/21 11:29	DCL	XEN STF

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-47-S-3-4-211005 Lab Sample ID: 860-13162-3

Date Collected: 10/05/21 11:05 **Matrix: Solid**
Date Received: 10/06/21 11:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			.54 g	50 mL	25555	10/07/21 12:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			25653	10/07/21 14:17	AV	XEN STF
Total/NA	Prep	9012A			0.5002 mL	6 mL	27194	10/19/21 13:27	YVD	XEN STF
Total/NA	Analysis	9012A		1			27283	10/19/21 15:27	YVD	XEN STF
Soluble	Leach	DI Leach			20.03 g	20 mL	25597	10/07/21 11:34	JP	XEN STF
Soluble	Analysis	9045D		1	20.03 g	20 mL	25601	10/07/21 11:40	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.3854 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 10:40	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26153	10/12/21 09:27	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189844	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	530534	10/08/21 09:52	LTC	TAL SL
Total/NA	Prep	Fill_Geo-21			401.6000 g	1.0 g	530649	10/11/21 10:41	DCH	TAL SL
Total/NA	Analysis	GA-01-R		1			535205	11/05/21 07:57	CAH	TAL SL

Client Sample ID: Cell20-47-S-3-4-211005 Lab Sample ID: 860-13162-3

Date Collected: 10/05/21 11:05 **Matrix: Solid**
Date Received: 10/06/21 11:03 **Percent Solids: 94.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	26001	10/11/21 11:34	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27086	10/19/21 11:35	NA	XEN STF
Total/NA	Prep	3550C			30.05 g	5 mL	25978	10/11/21 10:23	JN	XEN STF
Total/NA	Analysis	8082A		1			26234	10/13/21 00:36	JAL	XEN STF

Client Sample ID: Cell20-51-S-3-4-211005 Lab Sample ID: 860-13162-4

Date Collected: 10/05/21 11:25 **Matrix: Solid**
Date Received: 10/06/21 11:03

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	5.32 g	5 mL	189770	10/12/21 14:06	RJT	XEN CC
Total/NA	Prep	3550C			30.05 g	1 mL	25960	10/11/21 09:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	25955	10/11/21 22:02	LPL	XEN STF
Total/NA	Prep	3546			15.49 g	1 mL	552164	10/19/21 16:25	BKL	TAL PEN
Total/NA	Analysis	8270D		2			552737	10/23/21 16:09	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			9.84 g	10 mL	25602	10/07/21 11:41	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			25575	10/07/21 20:42	IS	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	25978	10/11/21 10:23	JN	XEN STF
Total/NA	Analysis	8081B		1			26526	10/14/21 13:33	WP	XEN STF
Total/NA	ISM Prep	Increment, prep					553176	10/12/21 10:18	EKB	TAL DEN
Total/NA	Prep	8330B			10.41 g	40 mL	553608	10/14/21 18:05	DCL	TAL DEN
Total/NA	Analysis	8330B		1			553821	10/16/21 12:19	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.97 g	50 mL	25674	10/07/21 16:10	ANP	XEN STF
Total/NA	Analysis	9056A		1			25563	10/08/21 01:16	WP	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-51-S-3-4-211005 Lab Sample ID: 860-13162-4

Date Collected: 10/05/21 11:25 **Matrix: Solid**
Date Received: 10/06/21 11:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.97 g	50 mL	25674	10/07/21 16:10	ANP	XEN STF
Total/NA	Analysis	9056A		1			25564	10/08/21 01:16	WP	XEN STF
Total/NA	Prep	6860			10.22 g	100 mL	553021	10/11/21 13:18	TEH	TAL DEN
Total/NA	Analysis	6860		1			553306	10/12/21 14:28	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.16 g	20 mL	553234	10/13/21 10:29	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553683	10/15/21 10:10	AGCM	TAL DEN
Total/NA	Prep	3051A			.51 g	50 mL	26179	10/12/21 10:43	PB	XEN STF
Total/NA	Analysis	6020A		10			26339	10/12/21 18:49	DCL	XEN STF
Total/NA	Prep	3051A			.51 g	50 mL	26179	10/12/21 10:43	PB	XEN STF
Total/NA	Analysis	6020A		10			26409	10/13/21 11:37	DCL	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	25555	10/07/21 12:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			25653	10/07/21 14:18	AV	XEN STF
Total/NA	Prep	9012A			0.5001 mL	6 mL	27194	10/19/21 13:27	YVD	XEN STF
Total/NA	Analysis	9012A		1			27283	10/19/21 15:29	YVD	XEN STF
Soluble	Leach	DI Leach			20.04 g	20 mL	25597	10/07/21 11:34	JP	XEN STF
Soluble	Analysis	9045D		1	20.04 g	20 mL	25601	10/07/21 11:40	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.3149 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 10:42	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26153	10/12/21 09:27	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189844	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	530534	10/08/21 09:52	LTC	TAL SL
Total/NA	Prep	Fill_Geo-21			420.0000 g	1.0 g	530649	10/11/21 10:41	DCH	TAL SL
Total/NA	Analysis	GA-01-R		1			535196	11/05/21 07:25	CAH	TAL SL

Client Sample ID: Cell20-51-S-3-4-211005 Lab Sample ID: 860-13162-4

Date Collected: 10/05/21 11:25 **Matrix: Solid**
Date Received: 10/06/21 11:03 **Percent Solids: 76.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	26001	10/11/21 11:34	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27086	10/19/21 11:52	NA	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	25978	10/11/21 10:23	JN	XEN STF
Total/NA	Analysis	8082A		1			26234	10/13/21 01:04	JAL	XEN STF

Client Sample ID: Cell19-104-S-3-4-211005 Lab Sample ID: 860-13162-5

Date Collected: 10/05/21 12:57 **Matrix: Solid**
Date Received: 10/06/21 11:03

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	5.2 g	5 mL	189770	10/12/21 14:31	RJT	XEN CC
Total/NA	Prep	3550C			30.04 g	1 mL	25960	10/11/21 09:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	25955	10/11/21 22:22	LPL	XEN STF
Total/NA	Prep	3546			15.10 g	1 mL	552164	10/19/21 16:25	BKL	TAL PEN
Total/NA	Analysis	8270D		2			552998	10/25/21 23:00	PP1	TAL PEN

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-104-S-3-4-211005 Lab Sample ID: 860-13162-5

Date Collected: 10/05/21 12:57 **Matrix: Solid**
Date Received: 10/06/21 11:03

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			10.10 g	10 mL	25602	10/07/21 11:41	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			25575	10/07/21 20:59	IS	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	25978	10/11/21 10:23	JN	XEN STF
Total/NA	Analysis	8081B		1			26526	10/14/21 13:49	WP	XEN STF
Total/NA	ISM Prep	Increment, prep					553176	10/12/21 10:18	EKB	TAL DEN
Total/NA	Prep	8330B			10.64 g	40 mL	553608	10/14/21 18:05	DCL	TAL DEN
Total/NA	Analysis	8330B		1			553760	10/15/21 21:57	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.03 g	50 mL	25674	10/07/21 16:10	ANP	XEN STF
Total/NA	Analysis	9056A		1			25563	10/08/21 01:27	WP	XEN STF
Total/NA	Prep	300_Prep			5.03 g	50 mL	25674	10/07/21 16:10	ANP	XEN STF
Total/NA	Analysis	9056A		1			25564	10/08/21 01:27	WP	XEN STF
Total/NA	Prep	6860			10.74 g	100 mL	553021	10/11/21 13:18	TEH	TAL DEN
Total/NA	Analysis	6860		1			553306	10/12/21 14:33	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.25 g	20 mL	553234	10/13/21 10:29	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553683	10/15/21 10:19	AGCM	TAL DEN
Total/NA	Prep	3051A			.54 g	50 mL	26179	10/12/21 10:43	PB	XEN STF
Total/NA	Analysis	6020A		10			26339	10/12/21 18:52	DCL	XEN STF
Total/NA	Prep	3051A			.54 g	50 mL	26179	10/12/21 10:43	PB	XEN STF
Total/NA	Analysis	6020A		10			26409	10/13/21 11:39	DCL	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	25555	10/07/21 12:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			25653	10/07/21 14:20	AV	XEN STF
Total/NA	Prep	9012A			0.4989 mL	6 mL	27194	10/19/21 13:27	YVD	XEN STF
Total/NA	Analysis	9012A		1			27283	10/19/21 15:30	YVD	XEN STF
Soluble	Leach	DI Leach			20.03 g	20 mL	25597	10/07/21 11:34	JP	XEN STF
Soluble	Analysis	9045D		1	20.03 g	20 mL	25601	10/07/21 11:40	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.1366 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 10:45	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26153	10/12/21 09:27	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189844	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	530534	10/08/21 09:52	LTC	TAL SL
Total/NA	Prep	Fill_Geo-21			390.4000 g	1.0 g	530649	10/11/21 10:41	DCH	TAL SL
Total/NA	Analysis	GA-01-R		1			535198	11/05/21 07:58	CAH	TAL SL

Client Sample ID: Cell19-104-S-3-4-211005 Lab Sample ID: 860-13162-5

Date Collected: 10/05/21 12:57 **Matrix: Solid**
Date Received: 10/06/21 11:03 **Percent Solids: 86.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	26001	10/11/21 11:34	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27086	10/19/21 12:09	NA	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	25978	10/11/21 10:23	JN	XEN STF
Total/NA	Analysis	8082A		1			26234	10/13/21 01:14	JAL	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-80-S-3-4-211005
Lab Sample ID: 860-13162-6
Date Collected: 10/05/21 13:17
Matrix: Solid
Date Received: 10/06/21 11:03

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	189770	10/12/21 14:56	RJT	XEN CC
Total/NA	Prep	3550C			30.05 g	1 mL	25960	10/11/21 09:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	25955	10/11/21 22:42	LPL	XEN STF
Total/NA	Prep	3546			15.03 g	1 mL	552164	10/19/21 16:25	BKL	TAL PEN
Total/NA	Analysis	8270D		2			552998	10/25/21 23:27	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10 g	10 mL	25602	10/07/21 11:41	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			25780	10/08/21 10:42	IS	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	25978	10/11/21 10:23	JN	XEN STF
Total/NA	Analysis	8081B		1			26526	10/14/21 14:05	WP	XEN STF
Total/NA	ISM Prep	Increment, prep					553176	10/12/21 10:18	EKB	TAL DEN
Total/NA	Prep	8330B			10.34 g	40 mL	553608	10/14/21 18:05	DCL	TAL DEN
Total/NA	Analysis	8330B		1			553760	10/15/21 22:20	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.08 g	50 mL	25674	10/07/21 16:10	ANP	XEN STF
Total/NA	Analysis	9056A		1			25563	10/08/21 02:01	WP	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	25674	10/07/21 16:10	ANP	XEN STF
Total/NA	Analysis	9056A		1			25564	10/08/21 02:01	WP	XEN STF
Total/NA	Prep	6860			10.44 g	100 mL	553021	10/11/21 13:18	TEH	TAL DEN
Total/NA	Analysis	6860		1			553306	10/12/21 14:38	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.67 g	20 mL	553234	10/13/21 10:29	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553683	10/15/21 10:28	AGCM	TAL DEN
Total/NA	Prep	3051A			.57 g	50 mL	26179	10/12/21 10:43	PB	XEN STF
Total/NA	Analysis	6020A		10			26339	10/12/21 18:55	DCL	XEN STF
Total/NA	Prep	3051A			.57 g	50 mL	26179	10/12/21 10:43	PB	XEN STF
Total/NA	Analysis	6020A		10			26409	10/13/21 11:42	DCL	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	25555	10/07/21 12:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			25653	10/07/21 14:21	AV	XEN STF
Total/NA	Prep	9012A			0.4985 mL	6 mL	27194	10/19/21 13:27	YVD	XEN STF
Total/NA	Analysis	9012A		1			27283	10/19/21 15:34	YVD	XEN STF
Soluble	Leach	DI Leach			20.00 g	20 mL	25597	10/07/21 11:34	JP	XEN STF
Soluble	Analysis	9045D		1	20.00 g	20 mL	25601	10/07/21 11:40	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.0293 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 10:58	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26153	10/12/21 09:27	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189844	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	530534	10/08/21 09:52	LTC	TAL SL
Total/NA	Prep	Fill_Geo-21			404.5000 g	1.0 g	530649	10/11/21 10:41	DCH	TAL SL
Total/NA	Analysis	GA-01-R		1			535205	11/05/21 08:32	CAH	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-80-S-3-4-211005
Lab Sample ID: 860-13162-6
Date Collected: 10/05/21 13:17
Matrix: Solid
Date Received: 10/06/21 11:03
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	26001	10/11/21 11:34	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27086	10/19/21 12:26	NA	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	25978	10/11/21 10:23	JN	XEN STF
Total/NA	Analysis	8082A		1			26234	10/13/21 01:23	JAL	XEN STF

Client Sample ID: Cell19-77-S-3-4-211005
Lab Sample ID: 860-13162-7
Date Collected: 10/05/21 13:53
Matrix: Solid
Date Received: 10/06/21 11:03

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	189770	10/12/21 15:22	RJT	XEN CC
Total/NA	Prep	3550C			30.02 g	1 mL	25960	10/11/21 09:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	25955	10/11/21 23:02	LPL	XEN STF
Total/NA	Prep	3546			15.07 g	1 mL	552164	10/19/21 16:25	BKL	TAL PEN
Total/NA	Analysis	8270D		2			552998	10/25/21 23:53	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25602	10/07/21 11:41	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			25575	10/07/21 21:53	IS	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	25978	10/11/21 10:23	JN	XEN STF
Total/NA	Analysis	8081B		1			26526	10/14/21 14:21	WP	XEN STF
Total/NA	ISM Prep	Increment, prep					553176	10/12/21 10:18	EKB	TAL DEN
Total/NA	Prep	8330B			10.8 g	40 mL	553608	10/14/21 18:05	DCL	TAL DEN
Total/NA	Analysis	8330B		1			553760	10/15/21 23:06	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.06 g	50 mL	25674	10/07/21 16:10	ANP	XEN STF
Total/NA	Analysis	9056A		1			25563	10/08/21 02:12	WP	XEN STF
Total/NA	Prep	300_Prep			5.06 g	50 mL	25674	10/07/21 16:10	ANP	XEN STF
Total/NA	Analysis	9056A		1			25564	10/08/21 02:12	WP	XEN STF
Total/NA	Prep	6860			10.27 g	100 mL	553021	10/11/21 13:18	TEH	TAL DEN
Total/NA	Analysis	6860		1			553306	10/12/21 14:59	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.06 g	20 mL	553234	10/13/21 10:29	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553683	10/15/21 10:45	AGCM	TAL DEN
Total/NA	Prep	3051A			.57 g	50 mL	26179	10/12/21 10:43	PB	XEN STF
Total/NA	Analysis	6020A		10			26339	10/12/21 18:58	DCL	XEN STF
Total/NA	Prep	3051A			.57 g	50 mL	26179	10/12/21 10:43	PB	XEN STF
Total/NA	Analysis	6020A		10			26409	10/13/21 11:44	DCL	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	25555	10/07/21 12:20	AGR	XEN STF
Total/NA	Analysis	7471A		1			25653	10/07/21 14:23	AV	XEN STF
Total/NA	Prep	9012A			0.4993 mL	6 mL	27194	10/19/21 13:27	YVD	XEN STF
Total/NA	Analysis	9012A		1			27283	10/19/21 15:36	YVD	XEN STF
Soluble	Leach	DI Leach			20.02 g	20 mL	25597	10/07/21 11:34	JP	XEN STF
Soluble	Analysis	9045D		1	20.02 g	20 mL	25601	10/07/21 11:40	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.0187 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 11:01	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26153	10/12/21 09:27	BM	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-77-S-3-4-211005 Lab Sample ID: 860-13162-7

Date Collected: 10/05/21 13:53 **Matrix: Solid**
Date Received: 10/06/21 11:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			250 g	1000 mL	189844	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	530534	10/08/21 09:52	LTC	TAL SL
Total/NA	Prep	Fill_Geo-21			357.6000 g	1.0 g	530649	10/11/21 10:41	DCH	TAL SL
Total/NA	Analysis	GA-01-R		1			535197	11/05/21 07:59	CAH	TAL SL

Client Sample ID: Cell19-77-S-3-4-211005 Lab Sample ID: 860-13162-7

Date Collected: 10/05/21 13:53 **Matrix: Solid**
Date Received: 10/06/21 11:03 **Percent Solids: 77.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	26001	10/11/21 11:34	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27086	10/19/21 12:43	NA	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	25978	10/11/21 10:23	JN	XEN STF
Total/NA	Analysis	8082A		1			26234	10/13/21 01:33	JAL	XEN STF

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 Xenco, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471
XEN STF = Eurofins Xenco, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Xenco

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	12-16-21

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	11-02-21
A2LA	ISO/IEC 17025	2907.01	11-02-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-28-22
Arizona	State	AZ0713	12-19-21
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	01-08-22
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	12-31-21
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-26-21
Nevada	State	CO000262020-1	11-21-21
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	12-14-21
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-21
North Dakota	State	R-034	01-08-22
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-22
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	11-02-21
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 *
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	11-29-21
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-21

Laboratory: Eurofins Pensacola

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Pensacola (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
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	10-31-21
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-21
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-21
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	12-31-21
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-22
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	12-31-21

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	04-06-22
Arizona	State	AZ0813	12-08-21
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
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	01-01-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-21
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-13162-1
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
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	12-27-21
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	11-18-21
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	03-01-22
South Carolina	State	85002001	12-12-21
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

Laboratory: Eurofins Xenco

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

Method Summary

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

Job ID: 860-13162-1

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
Increment, prep	ISM - Dry, Disaggregate, Sieve, 2 D Slabcake Subsample	EPA	TAL DEN
PFC leach	Leaching procedure for PFAS	TAL-DEN	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: 860-13162-1

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 Xenco, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = Eurofins Xenco, 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: 860-13162-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-13162-1	Cell20-157-S-3-4-211005	Solid	10/05/21 09:50	10/06/21 11:03
860-13162-2	Cell20-132-S-3-4-211005	Solid	10/05/21 10:22	10/06/21 11:03
860-13162-3	Cell20-47-S-3-4-211005	Solid	10/05/21 11:05	10/06/21 11:03
860-13162-4	Cell20-51-S-3-4-211005	Solid	10/05/21 11:25	10/06/21 11:03
860-13162-5	Cell19-104-S-3-4-211005	Solid	10/05/21 12:57	10/06/21 11:03
860-13162-6	Cell19-80-S-3-4-211005	Solid	10/05/21 13:17	10/06/21 11:03
860-13162-7	Cell19-77-S-3-4-211005	Solid	10/05/21 13:53	10/06/21 11:03

Page 257 of 532

Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

860-13162 Chain of Custody

eurofins Environment Testing America

IC No: 10-4906-1683.1
Page:
Job #:

Client Information

Client Contact: Alison Schaffer
Company: ARCADIS U.S. Inc.
Address: 630 Plaza Drive Suite 100
City: Highlands Ranch
State, Zip: CO, 80129-2377
Phone: 303-710-7537(Tel)
Email: Alison.Schaffer@arcadis.com
Project Name: Chevron Jal Land Farm Soils
Site:

Sampler: Terry S Longwell
Phone: 432-288-0876
PWSID:
Due Date Requested:
TAT Requested (days):
Compliance Project: Δ Yes Δ No
PO #: Purchase Order Requested
WO #:
Project #: 86002103
SSOW#:

Lab PM: Kudchadkar Sachin
E-Mail: Sachin.Kudchadkar@

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)	GA_01_R_Ra (MOD) Radium-228/228	6860 Standard 6860 list	8330B (MOD) DOD Sublist	PFC (MOD) Custom List	8270D_AgCtwm (MOD) Copy Analytes	2540C Local Method	8260B (MOD) mod	8260C_SIM 1,4-Dioxane	8015MOD_NM (MOD) Copy Analytes	6020A, 7471A, 8081B, 8082A, 8270D, 9012A, 9045D, 9056A_ORGFM_28D, 9056A_ORGFM_48H, 9066	containers
			Preservation Code:				N	N	N	N	N	N	N	N	N	N	
Cell 20-157-5-3-4-211005	10/5/21	0950	G	Solid			X	X	X	X	X	X	X	X	X	X	
Cell 20-132-5-3-4-211005	10/5/21	1022	G	Solid			X	X	X	X	X	X	X	X	X	X	
Cell 20-47-5-3-4-211005	10/5/21	1105	G	Solid			X	X	X	X	X	X	X	X	X	X	
Cell 20-51-5-3-4-211005	10/5/21	1125	G	Solid			X	X	X	X	X	X	X	X	X	X	
Cell 19-104-5-3-4-211005	10/5/21	1257	G	Solid			X	X	X	X	X	X	X	X	X	X	
Cell 19-80-5-3-4-211005	10/5/21	1317	G	Solid			X	X	X	X	X	X	X	X	X	X	
Cell 19-77-5-3-4-211005	10/5/21	1353	G	Solid			X	X	X	X	X	X	X	X	X	X	
				Solid													
				Solid													
				Solid													
				Solid													

Temp: 5.1 IR ID:HOU-272
C/F +0.2
Corrected Temp: 5.3
Temp: 0.1 IR ID:HOU-272
C/F +0.2
Corrected Temp: 0.3
Temp: 4.1 IR ID:HOU-272
C/F +0.2
Corrected Temp: 4.3
Temp: 2.1 IR ID:HOU-272
C/F +0.2
Corrected Temp: 2.3
Temp: 3.1 IR ID:HOU-272
C/F +0.2
Corrected Temp: 3.3
Temp: 4.0 IR ID:HOU-272
C/F +0.2
Corrected Temp: 4.2
Temp: 1.1 IR ID:HOU-272
C/F +0.2
Corrected Temp: 1.3

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

Sample Disposal (A fee may be assessed if samples are r
☐ 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: 10/6/21 1554	Company ARCADIS	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/6/21 16:03	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: 4/7/2022 9:53:37 AM

Released to Imaging: 4/20/2022 8:49:45 AM

Released to Imaging: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 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: 860-6270.1
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 #: 860-13162-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 10/25/2021			
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:						
Cell20-157-5-3-4-211005 (860-13162-1)	10/5/21	09:50 Central		Solid			X	2	
Cell20-132-5-3-4-211005 (860-13162-2)	10/5/21	10:22 Central		Solid			X	2	
Cell20-47-5-3-4-211005 (860-13162-3)	10/5/21	11:05 Central		Solid			X	2	
Cell20-51-5-3-4-211005 (860-13162-4)	10/5/21	11:25 Central		Solid			X	2	
Cell19-104-5-3-4-211005 (860-13162-5)	10/5/21	12:57 Central		Solid			X	2	
Cell19-80-5-3-4-211005 (860-13162-6)	10/5/21	13:17 Central		Solid			X	2	
Cell19-77-5-3-4-211005 (860-13162-7)	10/5/21	13:53 Central		Solid			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco 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: FED EX	Date/Time: 10/6/21	Company	Received by: FED EX / Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Micha Kominkiewicz / Date/Time: OCT 07 2021 09:30	Company: EDA Sm
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: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 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: 860-6268.1
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 #: 860-13162-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 10/22/2021			
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/ISM_DD_SI_SS (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell20-157-5-3-4-211005 (860-13162-1)	10/5/21	09:50 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell20-132-5-3-4-211005 (860-13162-2)	10/5/21	10:22 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell20-47-5-3-4-211005 (860-13162-3)	10/5/21	11:05 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell20-51-5-3-4-211005 (860-13162-4)	10/5/21	11:25 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell19-104-5-3-4-211005 (860-13162-5)	10/5/21	12:57 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell19-80-5-3-4-211005 (860-13162-6)	10/5/21	13:17 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell19-77-5-3-4-211005 (860-13162-7)	10/5/21	13:53 Central		Solid			X	X	X	4	, ism subsampling is not required.

Note: Since laboratory accreditations are subject to change, Eurofins Xenco 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco 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: Peter Dan	Date/Time: 10/6/21 1700	Company Ex	Received by: Got	Date/Time: 10/07/2021 1055	Company ETA/EN
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: 4-0.2-3 IR11 #1.0

Ver: 06/08/2021

Released to Imaging: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 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: 860-6271.1
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 #: 860-13162-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 10/25/2021			
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:						
Cell20-157-5-3-4-211005 (860-13162-1)	10/5/21	09:50 Central		Solid			X	1	
Cell20-132-5-3-4-211005 (860-13162-2)	10/5/21	10:22 Central		Solid			X	1	
Cell20-47-5-3-4-211005 (860-13162-3)	10/5/21	11:05 Central		Solid			X	1	
Cell20-51-5-3-4-211005 (860-13162-4)	10/5/21	11:25 Central		Solid			X	1	
Cell19-104-5-3-4-211005 (860-13162-5)	10/5/21	12:57 Central		Solid			X	1	
Cell19-80-5-3-4-211005 (860-13162-6)	10/5/21	13:17 Central		Solid			X	1	
Cell19-77-5-3-4-211005 (860-13162-7)	10/5/21	13:53 Central		Solid			X	1	
								1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco 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: Linda	Date/Time: 10/6/21	Company	Received by: Kathy Raney	Date/Time: 10.7.21 1428	Company EIA
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: 0.3°C IR8

Ver: 06/08/2021

Released to Imaging: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 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: 860-6269.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Texas		Job #: 860-13162-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 10/22/2021			
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:							
Cell20-157-5-3-4-211005 (860-13162-1)	10/5/21	09:50 Central		Solid			X	X	1	
Cell20-132-5-3-4-211005 (860-13162-2)	10/5/21	10:22 Central		Solid			X	X	1	
Cell20-47-5-3-4-211005 (860-13162-3)	10/5/21	11:05 Central		Solid			X	X	1	
Cell20-51-5-3-4-211005 (860-13162-4)	10/5/21	11:25 Central		Solid			X	X	1	
Cell19-104-5-3-4-211005 (860-13162-5)	10/5/21	12:57 Central		Solid			X	X	1	
Cell19-80-5-3-4-211005 (860-13162-6)	10/5/21	13:17 Central		Solid			X	X	1	
Cell19-77-5-3-4-211005 (860-13162-7)	10/5/21	13:53 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco 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: 10/6/21	Company	Received by:	Date/Time: 10/07/2021 0955	Company 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: 0.5 C6 IR-10 0.4

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-13162-1

Login Number: 13162 **List Source: Eurofins Xenco**
List Number: 1
Creator: Torrez, Lisandra

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.	False	Some sample container time does not match COC
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: 860-13162-1

Login Number: 13162 **List Source: Eurofins Denver**
List Number: 5 **List Creation: 10/07/21 08:42 PM**
Creator: O'Hara, Jake F

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.	False	
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").	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: 860-13162-1

Login Number: 13162 **List Source: Eurofins Pensacola**
List Number: 3 **List Creation: 10/07/21 05:55 PM**
Creator: Avery, Kathy R

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	0.3°C IR 8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: 860-13162-1

Login Number: 13162 **List Source: Eurofins St. Louis**
List Number: 4 **List Creation: 10/07/21 07:15 PM**
Creator: Korrinhizer, Micha L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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: 860-13162-1

Login Number: 13162 **List Source: Eurofins Xenco**
List Number: 2 **List Creation: 10/07/21 11:04 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.	False	Sample 3E arrived in Corpus Christi broken.
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
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-13347-1
Client Project/Site: Chevron - Jal Land Farm Soils
Revision: 1

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

Attn: Alison Schaffer



Authorized for release by:
1/7/2022 11:11:53 AM

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: 860-13347-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
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
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
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
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
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.

General Chemistry

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.

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: 860-13347-1
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: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-13347-1

Laboratory: Eurofins Xenco

Narrative

Job Narrative
860-13347-1

The report was revised on 01/07/21 to correct the sample IDs.

Receipt
The samples were received on 10/8/2021 10:21 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 10 coolers at receipt time were 0.3°C, 1.3°C, 2.3°C, 3.2°C, 3.3°C, 4.4°C, 4.7°C, 5.3°C, 5.3°C and 5.3°C

GC/MS VOA
Method 8260B: The method blank for analytical batch 560-189770 contained methylene chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-analysis of samples was not performed.

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

GC/MS Semi 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.

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 duplicate (LCSD) for preparation batch 860-27227 and analytical batch 860-27304 recovered outside control limits for the following analytes: Endrin aldehyde. These analytes were biased high in the LCSD 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.

HPLC/IC
Method 9056A_ORGFM_48H: The method blank for preparation batch 860-27632 and analytical batch 860-27472 contained Nitrate Nitrite as N above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request ISM subsampling was not performed on these samples. Cell19-114-5-3-4-211006 (860-13347-1), Cell18-45-5-3-4-211006 (860-13347-2), Cell18-8-5-3-4-211006 (860-13347-3), Cell18-162-5-3-4-211006 (860-13347-4), Cell18-76-5-3-4-211006 (860-13347-5), Cell17-127-5-3-4-211006 (860-13347-6), Cell17-23-5-3-4-211006 (860-13347-7), Cell17-136-5-3-4-211006 (860-13347-8), Cell17-119-5-3-4-211006 (860-13347-9) and Cell25-190-5-3-4-211006 (860-13347-10) in preparation batch 280-553176 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B.

Method 8330B: Sample contained free water.Cell19-114-5-3-4-211006 (860-13347-1), Cell18-45-5-3-4-211006 (860-13347-2), Cell18-162-5-3-4-211006 (860-13347-4) and Cell17-119-5-3-4-211006 (860-13347-9) in preparation batch 280-553176 by ISM_DD_SI_SS 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: Cell19-114-5-3-4-211006 (860-13347-1), Cell18-45-5-3-4-211006 (860-13347-2), Cell18-8-5-3-4-211006 (860-13347-3), Cell18-162-5-3-4-211006 (860-13347-4), Cell18-76-5-3-4-211006 (860-13347-5), Cell17-127-5-3-4-211006 (860-13347-6), Cell17-23-5-3-4-211006 (860-13347-7), Cell17-136-5-3-4-211006 (860-13347-8), Cell17-119-5-3-4-211006 (860-13347-9) and Cell25-190-5-3-4-211006 (860-13347-10). This material was removed and not extracted. The material removed is described in the

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-13347-1 (Continued)

Laboratory: Eurofins Xenco (Continued)

aliquot spreadsheet. In preparation batch 280-553176 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B.

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

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

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

Metals
Method 6020A: The method blank for preparation batch 860-26205 and analytical batch 860-26536 contained Manganese above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020A: The method blank for preparation batch 860-26205 and analytical batch 860-26725 contained Zinc above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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 160-531365Many 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-210Pb-210 Bi-210Cs-137 Ba-137mPb-212 Po-216Xe-131m Xe-131Sb-12 Te-125mAg-108m Ag-108Rh-106 Ru-106Pb-212 Th-228Pb-212 Ra-224U-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. **The method blank (MB) Z-score is within limits and is located in the level IV raw data. Cell19-114-5-3-4-211006 (860-13347-1), Cell18-45-5-3-4-211006 (860-13347-2), Cell18-8-5-3-4-211006 (860-13347-3), Cell18-162-5-3-4-211006 (860-13347-4), Cell18-76-5-3-4-211006 (860-13347-5), Cell17-127-5-3-4-211006 (860-13347-6), Cell17-23-5-3-4-211006 (860-13347-7), Cell17-136-5-3-4-211006 (860-13347-8), Cell17-119-5-3-4-211006 (860-13347-9), Cell25-190-5-3-4-211006 (860-13347-10) and (860-13347-F-10-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.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-13347-1

Client Sample ID: Cell19-114-S-3-4-211006 Lab Sample ID: 860-13347-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DDT	0.286	J	3.00	0.254	ug/Kg	1		8081B	Total/NA
Chloride	15.3		9.84	3.48	mg/Kg	1		9056A	Total/NA
Nitrate as N	11.0		0.984	0.106	mg/Kg	1		9056A	Total/NA
Fluoride	4.30	J	4.92	0.984	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.407	J	0.984	0.0492	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	11.4	b	0.984	0.00492	mg/Kg	1		9056A	Total/NA
Sulfate	229		9.84	4.25	mg/Kg	1		9056A	Total/NA
Perchlorate	0.156	J	0.465	0.0766	ug/Kg	1		6860	Total/NA
Arsenic	2.28	J	3.70	0.571	mg/Kg	10		6020A	Total/NA
Barium	170		3.70	0.321	mg/Kg	10		6020A	Total/NA
Chromium	1.40	J	3.70	0.251	mg/Kg	10		6020A	Total/NA
Copper	1.03	J	3.70	0.242	mg/Kg	10		6020A	Total/NA
Iron	1170		18.5	2.17	mg/Kg	10		6020A	Total/NA
Manganese	14.2	b	1.85	0.236	mg/Kg	10		6020A	Total/NA
Lead	0.903	J	1.85	0.179	mg/Kg	10		6020A	Total/NA
Antimony	0.130	J	1.85	0.110	mg/Kg	10		6020A	Total/NA
Uranium	0.329	J	0.926	0.0554	mg/Kg	10		6020A	Total/NA
Zinc	31.6	b	3.70	0.410	mg/Kg	10		6020A	Total/NA
Mercury	0.00445	J	0.0182	0.00349	mg/Kg	1		7471A	Total/NA
Cyanide, Total	66.0		60.3	29.9	ug/Kg	1		9012A	Total/NA
pH	8.7				SU	1		9045D	Soluble
Total Dissolved Solids	170		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell18-45-S-3-4-211006 Lab Sample ID: 860-13347-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DDT	0.281	J	3.00	0.254	ug/Kg	1		8081B	Total/NA
Chloride	7.41	J	10.1	3.56	mg/Kg	1		9056A	Total/NA
Nitrate as N	8.09		1.01	0.109	mg/Kg	1		9056A	Total/NA
Fluoride	2.65	J	5.03	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.471	J	1.01	0.0503	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	8.56	b	1.01	0.00503	mg/Kg	1		9056A	Total/NA
Sulfate	60.7		10.1	4.35	mg/Kg	1		9056A	Total/NA
Perchlorate	0.0950	J	0.464	0.0764	ug/Kg	1		6860	Total/NA
Arsenic	2.24	J	3.70	0.571	mg/Kg	10		6020A	Total/NA
Barium	191		3.70	0.321	mg/Kg	10		6020A	Total/NA
Chromium	2.07	J	3.70	0.251	mg/Kg	10		6020A	Total/NA
Copper	1.45	J	3.70	0.242	mg/Kg	10		6020A	Total/NA
Iron	1540		18.5	2.17	mg/Kg	10		6020A	Total/NA
Manganese	18.3	b	1.85	0.236	mg/Kg	10		6020A	Total/NA
Lead	1.07	J	1.85	0.179	mg/Kg	10		6020A	Total/NA
Antimony	0.114	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	12.7	b	3.70	0.410	mg/Kg	10		6020A	Total/NA
Mercury	0.00654	J	0.0192	0.00370	mg/Kg	1		7471A	Total/NA
Cyanide, Total	32.2	J	60.3	29.9	ug/Kg	1		9012A	Total/NA
pH	9.0				SU	1		9045D	Soluble
Total Dissolved Solids	272		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Eurofins Xenco

Detection Summary

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

Job ID: 860-13347-1

Client Sample ID: Cell18-8-S-3-4-211006 Lab Sample ID: 860-13347-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DDT	0.312	J	3.00	0.254	ug/Kg	1		8081B	Total/NA
Chloride	19.1		10.2	3.60	mg/Kg	1		9056A	Total/NA
Nitrate as N	39.9		1.02	0.110	mg/Kg	1		9056A	Total/NA
Fluoride	5.46		5.08	1.02	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.530	J	1.02	0.0508	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	40.4	b	1.02	0.00508	mg/Kg	1		9056A	Total/NA
Sulfate	201		10.2	4.39	mg/Kg	1		9056A	Total/NA
Perchlorate	0.507		0.494	0.0814	ug/Kg	1		6860	Total/NA
Arsenic	2.49	J	3.57	0.551	mg/Kg	10		6020A	Total/NA
Barium	254		3.57	0.310	mg/Kg	10		6020A	Total/NA
Chromium	2.13	J	3.57	0.242	mg/Kg	10		6020A	Total/NA
Copper	1.35	J	3.57	0.233	mg/Kg	10		6020A	Total/NA
Iron	1890		17.9	2.09	mg/Kg	10		6020A	Total/NA
Manganese	18.5	b	1.79	0.227	mg/Kg	10		6020A	Total/NA
Lead	1.18	J	1.79	0.173	mg/Kg	10		6020A	Total/NA
Antimony	0.137	J	1.79	0.106	mg/Kg	10		6020A	Total/NA
Uranium	0.379	J	0.893	0.0534	mg/Kg	10		6020A	Total/NA
Zinc	8.68	b	3.57	0.395	mg/Kg	10		6020A	Total/NA
Mercury	0.00780	J	0.0200	0.00384	mg/Kg	1		7471A	Total/NA
pH	9.0				SU	1		9045D	Soluble
Total Dissolved Solids	186		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell18-162-S-3-4-211006 Lab Sample ID: 860-13347-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20.8		9.84	3.48	mg/Kg	1		9056A	Total/NA
Nitrate as N	24.7		0.984	0.106	mg/Kg	1		9056A	Total/NA
Fluoride	3.40	J	4.92	0.984	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.461	J	0.984	0.0492	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	25.2	b	0.984	0.00492	mg/Kg	1		9056A	Total/NA
Sulfate	145		9.84	4.25	mg/Kg	1		9056A	Total/NA
Perchlorate	0.296	J	0.498	0.0820	ug/Kg	1		6860	Total/NA
Arsenic	2.18	J	3.70	0.571	mg/Kg	10		6020A	Total/NA
Barium	149		3.70	0.321	mg/Kg	10		6020A	Total/NA
Chromium	1.24	J	3.70	0.251	mg/Kg	10		6020A	Total/NA
Copper	1.00	J	3.70	0.242	mg/Kg	10		6020A	Total/NA
Iron	982		18.5	2.17	mg/Kg	10		6020A	Total/NA
Manganese	12.2	b	1.85	0.236	mg/Kg	10		6020A	Total/NA
Lead	0.753	J	1.85	0.179	mg/Kg	10		6020A	Total/NA
Uranium	0.217	J	0.926	0.0554	mg/Kg	10		6020A	Total/NA
Zinc	30.4	b	3.70	0.410	mg/Kg	10		6020A	Total/NA
Mercury	0.0196		0.0185	0.00356	mg/Kg	1		7471A	Total/NA
pH	9.3				SU	1		9045D	Soluble
Total Dissolved Solids	253		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell18-76-S-3-4-211006 Lab Sample ID: 860-13347-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	161		9.82	3.48	mg/Kg	1		9056A	Total/NA
Nitrate as N	38.5		0.982	0.106	mg/Kg	1		9056A	Total/NA
Fluoride	4.05	J	4.91	0.982	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.437	J	0.982	0.0491	mg/Kg	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

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

Job ID: 860-13347-1

Client Sample ID: Cell18-76-S-3-4-211006 (Continued) Lab Sample ID: 860-13347-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate Nitrite as N	38.9	b	0.982	0.00491	mg/Kg	1		9056A	Total/NA
Sulfate	230		9.82	4.24	mg/Kg	1		9056A	Total/NA
Perchlorate	0.247	J	0.480	0.0791	ug/Kg	1		6860	Total/NA
Arsenic	3.74		3.70	0.571	mg/Kg	10		6020A	Total/NA
Barium	357		3.70	0.321	mg/Kg	10		6020A	Total/NA
Chromium	2.12	J	3.70	0.251	mg/Kg	10		6020A	Total/NA
Copper	1.36	J	3.70	0.242	mg/Kg	10		6020A	Total/NA
Iron	1880		18.5	2.17	mg/Kg	10		6020A	Total/NA
Manganese	21.1	b	1.85	0.236	mg/Kg	10		6020A	Total/NA
Lead	1.36	J	1.85	0.179	mg/Kg	10		6020A	Total/NA
Antimony	0.169	J	1.85	0.110	mg/Kg	10		6020A	Total/NA
Uranium	0.397	J	0.926	0.0554	mg/Kg	10		6020A	Total/NA
Zinc	10.5	b	3.70	0.410	mg/Kg	10		6020A	Total/NA
Mercury	0.00529	J	0.0196	0.00377	mg/Kg	1		7471A	Total/NA
pH	8.5	H			SU	1		9045D	Soluble
Total Dissolved Solids	247		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell17-127-S-3-4-211006 Lab Sample ID: 860-13347-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	148		9.94	3.52	mg/Kg	1		9056A	Total/NA
Nitrate as N	32.7		0.994	0.107	mg/Kg	1		9056A	Total/NA
Fluoride	4.04	J	4.97	0.994	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.432	J	0.994	0.0497	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	33.2	b	0.994	0.00497	mg/Kg	1		9056A	Total/NA
Sulfate	161		9.94	4.29	mg/Kg	1		9056A	Total/NA
Perchlorate	0.254	J	0.463	0.0764	ug/Kg	1		6860	Total/NA
Arsenic	2.01	J	3.57	0.551	mg/Kg	10		6020A	Total/NA
Barium	205		3.57	0.310	mg/Kg	10		6020A	Total/NA
Chromium	1.87	J	3.57	0.242	mg/Kg	10		6020A	Total/NA
Copper	1.26	J	3.57	0.233	mg/Kg	10		6020A	Total/NA
Iron	1660		17.9	2.09	mg/Kg	10		6020A	Total/NA
Manganese	22.0	b	1.79	0.227	mg/Kg	10		6020A	Total/NA
Lead	1.44	J	1.79	0.173	mg/Kg	10		6020A	Total/NA
Antimony	0.116	J	1.79	0.106	mg/Kg	10		6020A	Total/NA
Uranium	0.267	J	0.893	0.0534	mg/Kg	10		6020A	Total/NA
Zinc	7.74	b	3.57	0.395	mg/Kg	10		6020A	Total/NA
Mercury	0.00755	J	0.0196	0.00377	mg/Kg	1		7471A	Total/NA
pH	8.7	H			SU	1		9045D	Soluble
Total Dissolved Solids	498		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell17-23-S-3-4-211006 Lab Sample ID: 860-13347-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	814		9.86	3.49	mg/Kg	1		9056A	Total/NA
Nitrate as N	17.3		0.986	0.107	mg/Kg	1		9056A	Total/NA
Fluoride	5.86		4.93	0.986	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.0817	J	0.986	0.0493	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	17.4	b	0.986	0.00493	mg/Kg	1		9056A	Total/NA
Sulfate	127		9.86	4.26	mg/Kg	1		9056A	Total/NA
Perchlorate	0.504		0.469	0.0773	ug/Kg	1		6860	Total/NA
Arsenic	3.18	J	3.45	0.532	mg/Kg	10		6020A	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-23-S-3-4-211006 (Continued) Lab Sample ID: 860-13347-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	283		3.45	0.299	mg/Kg	10		6020A	Total/NA
Chromium	2.31	J	3.45	0.234	mg/Kg	10		6020A	Total/NA
Copper	1.44	J	3.45	0.225	mg/Kg	10		6020A	Total/NA
Iron	2070		17.2	2.02	mg/Kg	10		6020A	Total/NA
Manganese	21.6	b	1.72	0.219	mg/Kg	10		6020A	Total/NA
Lead	1.23	J	1.72	0.167	mg/Kg	10		6020A	Total/NA
Antimony	0.123	J	1.72	0.103	mg/Kg	10		6020A	Total/NA
Uranium	0.441	J	0.862	0.0515	mg/Kg	10		6020A	Total/NA
Zinc	14.2	b	3.45	0.382	mg/Kg	10		6020A	Total/NA
Mercury	0.00981	J	0.0189	0.00363	mg/Kg	1		7471A	Total/NA
pH	8.1	H			SU	1		9045D	Soluble
Total Dissolved Solids	718		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell17-136-S-3-4-211006 Lab Sample ID: 860-13347-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.78	J	9.84	3.48	mg/Kg	1		9056A	Total/NA
Nitrate as N	16.6		0.984	0.106	mg/Kg	1		9056A	Total/NA
Fluoride	4.38	J	4.92	0.984	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.474	J	0.984	0.0492	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	17.1	b	0.984	0.00492	mg/Kg	1		9056A	Total/NA
Sulfate	72.1		9.84	4.25	mg/Kg	1		9056A	Total/NA
Perchlorate	0.0843	J	0.478	0.0787	ug/Kg	1		6860	Total/NA
Arsenic	2.40	J	3.70	0.571	mg/Kg	10		6020A	Total/NA
Barium	302		3.70	0.321	mg/Kg	10		6020A	Total/NA
Chromium	1.84	J	3.70	0.251	mg/Kg	10		6020A	Total/NA
Copper	1.57	J	3.70	0.242	mg/Kg	10		6020A	Total/NA
Iron	1480		18.5	2.17	mg/Kg	10		6020A	Total/NA
Manganese	19.5	b	1.85	0.236	mg/Kg	10		6020A	Total/NA
Lead	1.18	J	1.85	0.179	mg/Kg	10		6020A	Total/NA
Uranium	0.341	J	0.926	0.0554	mg/Kg	10		6020A	Total/NA
Zinc	14.3	b	3.70	0.410	mg/Kg	10		6020A	Total/NA
Mercury	0.00827	J	0.0192	0.00370	mg/Kg	1		7471A	Total/NA
pH	8.8	H			SU	1		9045D	Soluble
Total Dissolved Solids	344		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell17-119-S-3-4-211006 Lab Sample ID: 860-13347-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	282		10.1	3.58	mg/Kg	1		9056A	Total/NA
Nitrate as N	32.5		1.01	0.109	mg/Kg	1		9056A	Total/NA
Fluoride	4.81	J	5.06	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.391	J	1.01	0.0506	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	32.9	b	1.01	0.00506	mg/Kg	1		9056A	Total/NA
Sulfate	86.3		10.1	4.37	mg/Kg	1		9056A	Total/NA
Perchlorate	0.114	J	0.474	0.0781	ug/Kg	1		6860	Total/NA
Arsenic	3.53	J	3.77	0.582	mg/Kg	10		6020A	Total/NA
Barium	206		3.77	0.327	mg/Kg	10		6020A	Total/NA
Chromium	1.28	J	3.77	0.256	mg/Kg	10		6020A	Total/NA
Copper	1.16	J	3.77	0.246	mg/Kg	10		6020A	Total/NA
Iron	1010		18.9	2.21	mg/Kg	10		6020A	Total/NA
Manganese	14.8	b	1.89	0.240	mg/Kg	10		6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-119-S-3-4-211006 (Continued) Lab Sample ID: 860-13347-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.966	J	1.89	0.183	mg/Kg	10		6020A	Total/NA
Uranium	0.364	J	0.943	0.0564	mg/Kg	10		6020A	Total/NA
Zinc	7.91	b	3.77	0.418	mg/Kg	10		6020A	Total/NA
Mercury	0.00588	J	0.0196	0.00377	mg/Kg	1		7471A	Total/NA
pH	9.4				SU	1		9045D	Soluble
Total Dissolved Solids	436		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell25-190-S-3-4-211006 Lab Sample ID: 860-13347-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DDT	0.446	J	3.00	0.254	ug/Kg	1		8081B	Total/NA
Chloride	5.77	J	10.1	3.58	mg/Kg	1		9056A	Total/NA
Nitrate as N	3.19		1.01	0.109	mg/Kg	1		9056A	Total/NA
Fluoride	3.11	J	5.05	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.444	J	1.01	0.0505	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	3.64	b	1.01	0.00505	mg/Kg	1		9056A	Total/NA
Sulfate	25.6		10.1	4.36	mg/Kg	1		9056A	Total/NA
Arsenic	2.55	J	3.64	0.561	mg/Kg	10		6020A	Total/NA
Barium	415		3.64	0.315	mg/Kg	10		6020A	Total/NA
Cadmium	0.106	J	1.82	0.105	mg/Kg	10		6020A	Total/NA
Chromium	2.80	J	3.64	0.247	mg/Kg	10		6020A	Total/NA
Copper	2.18	J	3.64	0.237	mg/Kg	10		6020A	Total/NA
Iron	2480		18.2	2.13	mg/Kg	10		6020A	Total/NA
Manganese	36.5	b	1.82	0.231	mg/Kg	10		6020A	Total/NA
Lead	1.90		1.82	0.176	mg/Kg	10		6020A	Total/NA
Uranium	0.392	J	0.909	0.0543	mg/Kg	10		6020A	Total/NA
Zinc	12.0	b	3.64	0.402	mg/Kg	10		6020A	Total/NA
Mercury	0.00736	J	0.0189	0.00363	mg/Kg	1		7471A	Total/NA
pH	8.8	H			SU	1		9045D	Soluble
Total Dissolved Solids	617		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell19-114-S-3-4-211006

Date Collected: 10/06/21 08:52
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-1

Matrix: Solid

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			10/12/21 15:47	1
Chloromethane	1.18	U	4.90	1.18	ug/Kg			10/12/21 15:47	1
Vinyl chloride	0.588	U	4.90	0.588	ug/Kg			10/12/21 15:47	1
Bromomethane	1.08	U	4.90	1.08	ug/Kg			10/12/21 15:47	1
Trichlorofluoromethane	0.490	U	4.90	0.490	ug/Kg			10/12/21 15:47	1
Acrolein	8.43	U	49.0	8.43	ug/Kg			10/12/21 15:47	1
1,1-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			10/12/21 15:47	1
trans-1,2-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			10/12/21 15:47	1
Methyl tert-butyl ether	0.598	U	4.90	0.598	ug/Kg			10/12/21 15:47	1
1,3-Dichlorobenzene	0.304	U	4.90	0.304	ug/Kg			10/12/21 15:47	1
Methylene Chloride	4.90	U	24.5	4.90	ug/Kg			10/12/21 15:47	1
Acrylonitrile	3.53	U	49.0	3.53	ug/Kg			10/12/21 15:47	1
cis-1,2-Dichloroethene	0.559	U	4.90	0.559	ug/Kg			10/12/21 15:47	1
Carbon tetrachloride	0.500	U	4.90	0.500	ug/Kg			10/12/21 15:47	1
Benzene	0.618	U	4.90	0.618	ug/Kg			10/12/21 15:47	1
1,2-Dichloroethane	0.510	U	4.90	0.510	ug/Kg			10/12/21 15:47	1
Trichloroethene	0.275	U	4.90	0.275	ug/Kg			10/12/21 15:47	1
1,1,1-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			10/12/21 15:47	1
1,1-Dichloroethane	0.578	U	4.90	0.578	ug/Kg			10/12/21 15:47	1
1,2-Dichloropropane	0.490	U	4.90	0.490	ug/Kg			10/12/21 15:47	1
1,4-Dioxane	18.6	U	98.0	18.6	ug/Kg			10/12/21 15:47	1
Chloroform	0.853	U	4.90	0.853	ug/Kg			10/12/21 15:47	1
Bromodichloromethane	0.196	U	4.90	0.196	ug/Kg			10/12/21 15:47	1
1,1-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			10/12/21 15:47	1
cis-1,3-Dichloropropene	0.441	U	4.90	0.441	ug/Kg			10/12/21 15:47	1
Toluene	0.882	U	4.90	0.882	ug/Kg			10/12/21 15:47	1
trans-1,3-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			10/12/21 15:47	1
1,1,2-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			10/12/21 15:47	1
Tetrachloroethene	0.725	U	4.90	0.725	ug/Kg			10/12/21 15:47	1
1,3-Dichloropropene, Total	0.510	U	4.90	0.510	ug/Kg			10/12/21 15:47	1
1,2-Dibromoethane	0.294	U	4.90	0.294	ug/Kg			10/12/21 15:47	1
Monochlorobenzene	0.294	U	4.90	0.294	ug/Kg			10/12/21 15:47	1
Ethylbenzene	0.441	U	4.90	0.441	ug/Kg			10/12/21 15:47	1
Xylenes, Total	0.490	U	9.80	0.490	ug/Kg			10/12/21 15:47	1
Styrene	0.294	U	4.90	0.294	ug/Kg			10/12/21 15:47	1
Tribromomethane	0.500	U	4.90	0.500	ug/Kg			10/12/21 15:47	1
1,1,2,2-Tetrachloroethane	0.373	U	4.90	0.373	ug/Kg			10/12/21 15:47	1
1,4-Dichlorobenzene	0.314	U	4.90	0.314	ug/Kg			10/12/21 15:47	1
1,2-Dichlorobenzene	0.245	U	4.90	0.245	ug/Kg			10/12/21 15:47	1
1,2,4-Trichlorobenzene	0.951	U	4.90	0.951	ug/Kg			10/12/21 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 152*		*10/12/21 15:47*	*1*
Toluene-d8 (Surr)	*99*		*65 - 139*		*10/12/21 15:47*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 136*		*10/12/21 15:47*	*1*
4-Bromofluorobenzene (Surr)	*96*		*61 - 142*		*10/12/21 15:47*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.8	U	65.2	11.8	ug/Kg		10/20/21 08:00	10/26/21 00:47	1

Eurofins Xenco

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell19-114-S-3-4-211006

Date Collected: 10/06/21 08:52
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-1

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	92		30 - 164	10/20/21 08:00	10/26/21 00:47	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		10/13/21 07:18	10/13/21 19:26	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		10/13/21 07:18	10/13/21 19:26	1

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell19-114-S-3-4-211006

Date Collected: 10/06/21 08:52
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-1

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/13/21 07:18	10/13/21 19:26	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/13/21 07:18	10/13/21 19:26	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/13/21 07:18	10/13/21 19:26	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*	*10/13/21 07:18*	*10/13/21 19:26*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*30 - 115*	*10/13/21 07:18*	*10/13/21 19:26*	*1*
2-Fluorophenol	*81*		*25 - 121*	*10/13/21 07:18*	*10/13/21 19:26*	*1*
2,4,6-Tribromophenol	*68*		*19 - 122*	*10/13/21 07:18*	*10/13/21 19:26*	*1*
Nitrobenzene-d5	*79*		*23 - 129*	*10/13/21 07:18*	*10/13/21 19:26*	*1*
Phenol-d5 (Surr)	*76*		*24 - 113*	*10/13/21 07:18*	*10/13/21 19:26*	*1*
p-Terphenyl-d14 (Surr)	*74*		*18 - 137*	*10/13/21 07:18*	*10/13/21 19:26*	*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	21.3	U	50.5	21.3	mg/Kg		10/14/21 12:07	10/15/21 11:40	1
Diesel Range Organics (Over C10-C28)	21.3	U	50.5	21.3	mg/Kg		10/14/21 12:07	10/15/21 11:40	1
Oil Range Organics (Over C28-C36)	21.3	U	50.5	21.3	mg/Kg		10/14/21 12:07	10/15/21 11:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*111*		*65 - 130*	*10/14/21 12:07*	*10/15/21 11:40*	*1*
1-Chlorooctane	*102*		*65 - 130*	*10/14/21 12:07*	*10/15/21 11:40*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	**0.286**	**J**	3.00	0.254	ug/Kg		10/12/21 08:39	10/18/21 19:01	1
Aldrin	0.363	U	3.00	0.363	ug/Kg		10/12/21 08:39	10/18/21 19:01	1
Hexachlorocyclohexane, alpha-	0.680	U	3.00	0.680	ug/Kg		10/12/21 08:39	10/18/21 19:01	1
Hexachlorocyclohexane, beta-	0.474	U	3.00	0.474	ug/Kg		10/12/21 08:39	10/18/21 19:01	1
Chlordane (technical)	23.9	U	83.0	23.9	ug/Kg		10/12/21 08:39	10/18/21 19:01	1
Hexachlorocyclohexane, delta-	0.833	U	3.00	0.833	ug/Kg		10/12/21 08:39	10/18/21 19:01	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/12/21 08:39	10/18/21 19:01	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/12/21 08:39	10/18/21 19:01	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/12/21 08:39	10/18/21 19:01	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/12/21 08:39	10/18/21 19:01	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/12/21 08:39	10/18/21 19:01	1
Endrin aldehyde	0.247	U	3.00	0.247	ug/Kg		10/12/21 08:39	10/18/21 19:01	1
Hexachlorocyclohexane, gamma-	0.439	U	3.00	0.439	ug/Kg		10/12/21 08:39	10/18/21 19:01	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/12/21 08:39	10/18/21 19:01	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/12/21 08:39	10/18/21 19:01	1
Toxaphene	11.3	U	83.0	11.3	ug/Kg		10/12/21 08:39	10/18/21 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*35 - 135*	*10/12/21 08:39*	*10/18/21 19:01*	*1*

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell19-114-S-3-4-211006

Date Collected: 10/06/21 08:52
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-1

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	83		25 - 143	10/12/21 08:39	10/18/21 19:01	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	0.0223	U	0.0983	0.0223	mg/Kg		10/14/21 18:05	10/16/21 01:00	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0423	U	0.197	0.0423	mg/Kg		10/14/21 18:05	10/16/21 01:00	1
2,4,6-Trinitrotoluene	0.0302	U	0.0983	0.0302	mg/Kg		10/14/21 18:05	10/16/21 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	103		83 - 122	10/14/21 18:05	10/16/21 01:00	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.3**		9.84	3.48	mg/Kg		10/21/21 18:53	10/22/21 01:00	1
Nitrate as N	**11.0**		0.984	0.106	mg/Kg		10/21/21 18:53	10/22/21 01:00	1
Fluoride	**4.30**	**J**	4.92	0.984	mg/Kg		10/21/21 18:53	10/22/21 01:00	1
Nitrite as N	**0.407**	**J**	0.984	0.0492	mg/Kg		10/21/21 18:53	10/22/21 01:00	1
Nitrate Nitrite as N	**11.4**	**b**	0.984	0.00492	mg/Kg		10/21/21 18:53	10/22/21 01:00	1
Sulfate	**229**		9.84	4.25	mg/Kg		10/21/21 18:53	10/22/21 01:00	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.156**	**J**	0.465	0.0766	ug/Kg		10/11/21 13:18	10/12/21 15:15	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.224	U	0.779	0.224	ug/Kg		10/13/21 10:29	10/15/21 10:54	1
Perfluorohexanesulfonic acid (PFHxS)	0.273	U	0.779	0.273	ug/Kg		10/13/21 10:29	10/15/21 10:54	1
Perfluorooctanesulfonic acid (PFOS)	0.136	U	0.779	0.136	ug/Kg		10/13/21 10:29	10/15/21 10:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	101		57 - 153	10/13/21 10:29	10/15/21 10:54	1
13C8 PFOS	100		70 - 130	10/13/21 10:29	10/15/21 10:54	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		10/12/21 11:40	10/13/21 21:37	10
Arsenic	**2.28**	**J**	3.70	0.571	mg/Kg		10/12/21 11:40	10/13/21 21:37	10
Barium	**170**		3.70	0.321	mg/Kg		10/12/21 11:40	10/13/21 21:37	10
Beryllium	0.171	U	1.85	0.171	mg/Kg		10/12/21 11:40	10/13/21 21:37	10
Cadmium	0.107	U	1.85	0.107	mg/Kg		10/12/21 11:40	10/13/21 21:37	10
Chromium	**1.40**	**J**	3.70	0.251	mg/Kg		10/12/21 11:40	10/13/21 21:37	10
Copper	**1.03**	**J**	3.70	0.242	mg/Kg		10/12/21 11:40	10/13/21 21:37	10
Iron	**1170**		18.5	2.17	mg/Kg		10/12/21 11:40	10/13/21 21:37	10
Manganese	**14.2**	**b**	1.85	0.236	mg/Kg		10/12/21 11:40	10/13/21 21:37	10
Lead	**0.903**	**J**	1.85	0.179	mg/Kg		10/12/21 11:40	10/13/21 21:37	10
Antimony	**0.130**	**J**	1.85	0.110	mg/Kg		10/12/21 11:40	10/13/21 21:37	10
Selenium	0.459	U	1.85	0.459	mg/Kg		10/12/21 11:40	10/13/21 21:37	10
Thallium	0.221	U	1.85	0.221	mg/Kg		10/12/21 11:40	10/13/21 21:37	10
Uranium	**0.329**	**J**	0.926	0.0554	mg/Kg		10/12/21 11:40	10/13/21 21:37	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-114-S-3-4-211006 Lab Sample ID: 860-13347-1
Date Collected: 10/06/21 08:52 **Matrix: Solid**
Date Received: 10/08/21 10:21

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**31.6**	**b**	3.70	0.410	mg/Kg		10/12/21 11:40	10/14/21 18:07	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00445**	**J**	0.0182	0.00349	mg/Kg		10/12/21 13:15	10/12/21 18:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**66.0**		60.3	29.9	ug/Kg		10/19/21 13:27	10/19/21 15:37	1
Phenols, Total	0.0569	U	0.0949	0.0569	mg/Kg		10/21/21 08:30	10/22/21 11:04	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.7**				SU			10/12/21 13:07	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**170**		10.0	10.0	mg/L			10/21/21 15:00	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	**0.484**		0.122	0.132	1.00	0.0956	pCi/g	10/13/21 10:30	11/08/21 08:29	1
Radium-228	0.120	U	0.181	0.181		0.238	pCi/g	10/13/21 10:30	11/08/21 08:29	1
Combined Radium 226 + 228	**0.604**		0.218	0.224		0.238	pCi/g	10/13/21 10:30	11/08/21 08:29	1

Client Sample ID: Cell19-114-S-3-4-211006 Lab Sample ID: 860-13347-1
Date Collected: 10/06/21 08:52 **Matrix: Solid**
Date Received: 10/08/21 10:21 **Percent Solids: 88.0**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00284	U	0.00568	0.00284	mg/Kg	☼	10/11/21 11:34	10/19/21 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*	*10/11/21 11:34*	*10/19/21 13:00*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00449	U	0.0189	0.00449	mg/Kg	☼	10/12/21 08:39	10/13/21 17:06	1
Aroclor 1221	0.00449	U	0.0189	0.00449	mg/Kg	☼	10/12/21 08:39	10/13/21 17:06	1
Aroclor 1232	0.00449	U	0.0189	0.00449	mg/Kg	☼	10/12/21 08:39	10/13/21 17:06	1
Aroclor 1242	0.00449	U	0.0189	0.00449	mg/Kg	☼	10/12/21 08:39	10/13/21 17:06	1
Aroclor 1248	0.00449	U	0.0189	0.00449	mg/Kg	☼	10/12/21 08:39	10/13/21 17:06	1
Aroclor 1254	0.00296	U	0.0189	0.00296	mg/Kg	☼	10/12/21 08:39	10/13/21 17:06	1
Aroclor 1260	0.00296	U	0.0189	0.00296	mg/Kg	☼	10/12/21 08:39	10/13/21 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*35 - 140*	*10/12/21 08:39*	*10/13/21 17:06*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*37 - 142*	*10/12/21 08:39*	*10/13/21 17:06*	*1*

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Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell18-45-S-3-4-211006

Date Collected: 10/06/21 09:21
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-2

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.655	U	4.49	0.655	ug/Kg			10/12/21 16:12	1
Chloromethane	1.08	U	4.49	1.08	ug/Kg			10/12/21 16:12	1
Vinyl chloride	0.539	U	4.49	0.539	ug/Kg			10/12/21 16:12	1
Bromomethane	0.987	U	4.49	0.987	ug/Kg			10/12/21 16:12	1
Trichlorofluoromethane	0.449	U	4.49	0.449	ug/Kg			10/12/21 16:12	1
Acrolein	7.72	U	44.9	7.72	ug/Kg			10/12/21 16:12	1
1,1-Dichloroethene	0.449	U	4.49	0.449	ug/Kg			10/12/21 16:12	1
trans-1,2-Dichloroethene	0.449	U	4.49	0.449	ug/Kg			10/12/21 16:12	1
Methyl tert-butyl ether	0.548	U	4.49	0.548	ug/Kg			10/12/21 16:12	1
1,3-Dichlorobenzene	0.278	U	4.49	0.278	ug/Kg			10/12/21 16:12	1
Methylene Chloride	4.49	U	22.4	4.49	ug/Kg			10/12/21 16:12	1
Acrylonitrile	3.23	U	44.9	3.23	ug/Kg			10/12/21 16:12	1
cis-1,2-Dichloroethene	0.512	U	4.49	0.512	ug/Kg			10/12/21 16:12	1
Carbon tetrachloride	0.458	U	4.49	0.458	ug/Kg			10/12/21 16:12	1
Benzene	0.566	U	4.49	0.566	ug/Kg			10/12/21 16:12	1
1,2-Dichloroethane	0.467	U	4.49	0.467	ug/Kg			10/12/21 16:12	1
Trichloroethene	0.251	U	4.49	0.251	ug/Kg			10/12/21 16:12	1
1,1,1-Trichloroethane	0.449	U	4.49	0.449	ug/Kg			10/12/21 16:12	1
1,1-Dichloroethane	0.530	U	4.49	0.530	ug/Kg			10/12/21 16:12	1
1,2-Dichloropropane	0.449	U	4.49	0.449	ug/Kg			10/12/21 16:12	1
1,4-Dioxane	17.1	U	89.8	17.1	ug/Kg			10/12/21 16:12	1
Chloroform	0.781	U	4.49	0.781	ug/Kg			10/12/21 16:12	1
Bromodichloromethane	0.180	U	4.49	0.180	ug/Kg			10/12/21 16:12	1
1,1-Dichloropropene	0.467	U	4.49	0.467	ug/Kg			10/12/21 16:12	1
cis-1,3-Dichloropropene	0.404	U	4.49	0.404	ug/Kg			10/12/21 16:12	1
Toluene	0.808	U	4.49	0.808	ug/Kg			10/12/21 16:12	1
trans-1,3-Dichloropropene	0.467	U	4.49	0.467	ug/Kg			10/12/21 16:12	1
1,1,2-Trichloroethane	0.449	U	4.49	0.449	ug/Kg			10/12/21 16:12	1
Tetrachloroethene	0.664	U	4.49	0.664	ug/Kg			10/12/21 16:12	1
1,3-Dichloropropene, Total	0.467	U	4.49	0.467	ug/Kg			10/12/21 16:12	1
1,2-Dibromoethane	0.269	U	4.49	0.269	ug/Kg			10/12/21 16:12	1
Monochlorobenzene	0.269	U	4.49	0.269	ug/Kg			10/12/21 16:12	1
Ethylbenzene	0.404	U	4.49	0.404	ug/Kg			10/12/21 16:12	1
Xylenes, Total	0.449	U	8.98	0.449	ug/Kg			10/12/21 16:12	1
Styrene	0.269	U	4.49	0.269	ug/Kg			10/12/21 16:12	1
Tribromomethane	0.458	U	4.49	0.458	ug/Kg			10/12/21 16:12	1
1,1,2,2-Tetrachloroethane	0.341	U	4.49	0.341	ug/Kg			10/12/21 16:12	1
1,4-Dichlorobenzene	0.287	U	4.49	0.287	ug/Kg			10/12/21 16:12	1
1,2-Dichlorobenzene	0.224	U	4.49	0.224	ug/Kg			10/12/21 16:12	1
1,2,4-Trichlorobenzene	0.871	U	4.49	0.871	ug/Kg			10/12/21 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 152*		*10/12/21 16:12*	*1*
Toluene-d8 (Surr)	*98*		*65 - 139*		*10/12/21 16:12*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 136*		*10/12/21 16:12*	*1*
4-Bromofluorobenzene (Surr)	*96*		*61 - 142*		*10/12/21 16:12*	*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		10/20/21 08:00	10/26/21 01:14	1

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Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell18-45-S-3-4-211006

Date Collected: 10/06/21 09:21
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-2

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	99		30 - 164	10/20/21 08:00	10/26/21 01:14	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		10/13/21 07:18	10/13/21 19:46	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
bis (2-chloroisopropyl) ether	17.7	U	166	17.7	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
2,6-Dinitrotoluene	23.2	U	166	23.2	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Anthracene	13.8	U	166	13.8	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Chrysene	16.5	U	166	16.5	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Dimethyl phthalate	15.8	U	166	15.8	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Fluorene	13.8	U	166	13.8	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Hexachloroethane	17.2	U	166	17.2	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Isophorone	14.5	U	166	14.5	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Pyrene	14.6	U	166	14.6	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Naphthalene	15.6	U	166	15.6	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		10/13/21 07:18	10/13/21 19:46	1

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell18-45-S-3-4-211006

Date Collected: 10/06/21 09:21
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-2

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	18.5	U	166	18.5	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		10/13/21 07:18	10/13/21 19:46	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/13/21 07:18	10/13/21 19:46	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	333	332	ug/Kg		10/13/21 07:18	10/13/21 19:46	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*	*10/13/21 07:18*	*10/13/21 19:46*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*30 - 115*	*10/13/21 07:18*	*10/13/21 19:46*	*1*
2-Fluorophenol	*80*		*25 - 121*	*10/13/21 07:18*	*10/13/21 19:46*	*1*
2,4,6-Tribromophenol	*69*		*19 - 122*	*10/13/21 07:18*	*10/13/21 19:46*	*1*
Nitrobenzene-d5	*79*		*23 - 129*	*10/13/21 07:18*	*10/13/21 19:46*	*1*
Phenol-d5 (Surr)	*76*		*24 - 113*	*10/13/21 07:18*	*10/13/21 19:46*	*1*
p-Terphenyl-d14 (Surr)	*78*		*18 - 137*	*10/13/21 07:18*	*10/13/21 19:46*	*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		10/14/21 12:07	10/15/21 12:34	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		10/14/21 12:07	10/15/21 12:34	1
Oil Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		10/14/21 12:07	10/15/21 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*114*		*65 - 130*	*10/14/21 12:07*	*10/15/21 12:34*	*1*
1-Chlorooctane	*106*		*65 - 130*	*10/14/21 12:07*	*10/15/21 12:34*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	**0.281**	**J**	3.00	0.254	ug/Kg		10/12/21 08:39	10/18/21 19:15	1
Aldrin	0.363	U	3.00	0.363	ug/Kg		10/12/21 08:39	10/18/21 19:15	1
Hexachlorocyclohexane, alpha-	0.680	U	3.00	0.680	ug/Kg		10/12/21 08:39	10/18/21 19:15	1
Hexachlorocyclohexane, beta-	0.473	U	3.00	0.473	ug/Kg		10/12/21 08:39	10/18/21 19:15	1
Chlordane (technical)	23.9	U	82.9	23.9	ug/Kg		10/12/21 08:39	10/18/21 19:15	1
Hexachlorocyclohexane, delta-	0.833	U	3.00	0.833	ug/Kg		10/12/21 08:39	10/18/21 19:15	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/12/21 08:39	10/18/21 19:15	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/12/21 08:39	10/18/21 19:15	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/12/21 08:39	10/18/21 19:15	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/12/21 08:39	10/18/21 19:15	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/12/21 08:39	10/18/21 19:15	1
Endrin aldehyde	0.247	U	3.00	0.247	ug/Kg		10/12/21 08:39	10/18/21 19:15	1
Hexachlorocyclohexane, gamma-	0.438	U	3.00	0.438	ug/Kg		10/12/21 08:39	10/18/21 19:15	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/12/21 08:39	10/18/21 19:15	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/12/21 08:39	10/18/21 19:15	1
Toxaphene	11.3	U	82.9	11.3	ug/Kg		10/12/21 08:39	10/18/21 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*35 - 135*	*10/12/21 08:39*	*10/18/21 19:15*	*1*

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell18-45-S-3-4-211006

Date Collected: 10/06/21 09:21
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-2

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	90		25 - 143	10/12/21 08:39	10/18/21 19:15	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	0.0223	U	0.0980	0.0223	mg/Kg		10/14/21 18:05	10/16/21 01:23	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0422	U	0.196	0.0422	mg/Kg		10/14/21 18:05	10/16/21 01:23	1
2,4,6-Trinitrotoluene	0.0301	U	0.0980	0.0301	mg/Kg		10/14/21 18:05	10/16/21 01:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	106		83 - 122	10/14/21 18:05	10/16/21 01:23	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.41**	**J**	10.1	3.56	mg/Kg		10/21/21 18:53	10/22/21 01:32	1
Nitrate as N	**8.09**		1.01	0.109	mg/Kg		10/21/21 18:53	10/22/21 01:32	1
Fluoride	**2.65**	**J**	5.03	1.01	mg/Kg		10/21/21 18:53	10/22/21 01:32	1
Nitrite as N	**0.471**	**J**	1.01	0.0503	mg/Kg		10/21/21 18:53	10/22/21 01:32	1
Nitrate Nitrite as N	**8.56**	**b**	1.01	0.00503	mg/Kg		10/21/21 18:53	10/22/21 01:32	1
Sulfate	**60.7**		10.1	4.35	mg/Kg		10/21/21 18:53	10/22/21 01:32	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.0950**	**J**	0.464	0.0764	ug/Kg		10/11/21 13:18	10/12/21 15:20	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.221	U	0.767	0.221	ug/Kg		10/13/21 10:29	10/15/21 11:03	1
Perfluorohexanesulfonic acid (PFHxS)	0.268	U	0.767	0.268	ug/Kg		10/13/21 10:29	10/15/21 11:03	1
Perfluorooctanesulfonic acid (PFOS)	0.134	U	0.767	0.134	ug/Kg		10/13/21 10:29	10/15/21 11:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	99		57 - 153	10/13/21 10:29	10/15/21 11:03	1
13C8 PFOS	102		70 - 130	10/13/21 10:29	10/15/21 11:03	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		10/12/21 11:40	10/13/21 21:40	10
Arsenic	**2.24**	**J**	3.70	0.571	mg/Kg		10/12/21 11:40	10/13/21 21:40	10
Barium	**191**		3.70	0.321	mg/Kg		10/12/21 11:40	10/13/21 21:40	10
Beryllium	0.171	U	1.85	0.171	mg/Kg		10/12/21 11:40	10/13/21 21:40	10
Cadmium	0.107	U	1.85	0.107	mg/Kg		10/12/21 11:40	10/13/21 21:40	10
Chromium	**2.07**	**J**	3.70	0.251	mg/Kg		10/12/21 11:40	10/13/21 21:40	10
Copper	**1.45**	**J**	3.70	0.242	mg/Kg		10/12/21 11:40	10/13/21 21:40	10
Iron	**1540**		18.5	2.17	mg/Kg		10/12/21 11:40	10/13/21 21:40	10
Manganese	**18.3**	**b**	1.85	0.236	mg/Kg		10/12/21 11:40	10/13/21 21:40	10
Lead	**1.07**	**J**	1.85	0.179	mg/Kg		10/12/21 11:40	10/13/21 21:40	10
Antimony	**0.114**	**J**	1.85	0.110	mg/Kg		10/12/21 11:40	10/13/21 21:40	10
Selenium	0.459	U	1.85	0.459	mg/Kg		10/12/21 11:40	10/13/21 21:40	10
Thallium	0.221	U	1.85	0.221	mg/Kg		10/12/21 11:40	10/13/21 21:40	10
Uranium	**0.289**	**J**	0.926	0.0554	mg/Kg		10/12/21 11:40	10/13/21 21:40	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-45-S-3-4-211006 Lab Sample ID: 860-13347-2
Date Collected: 10/06/21 09:21 **Matrix: Solid**
Date Received: 10/08/21 10:21

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**12.7**	**b**	3.70	0.410	mg/Kg		10/12/21 11:40	10/14/21 18:10	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00654**	**J**	0.0192	0.00370	mg/Kg		10/12/21 13:15	10/12/21 17:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**32.2**	**J**	60.3	29.9	ug/Kg		10/19/21 13:27	10/19/21 15:38	1
Phenols, Total	0.0581	U	0.0969	0.0581	mg/Kg		10/21/21 08:30	10/22/21 11:06	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.0**				SU			10/12/21 13:07	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**272**		10.0	10.0	mg/L			10/21/21 15:00	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	**0.793**		0.141	0.163	1.00	0.101	pCi/g	10/13/21 10:30	11/08/21 08:59	1
Radium-228	0.0562	U	0.0977	0.0978		0.349	pCi/g	10/13/21 10:30	11/08/21 08:59	1
Combined Radium 226 + 228	**0.849**		0.172	0.190		0.349	pCi/g	10/13/21 10:30	11/08/21 08:59	1

Client Sample ID: Cell18-45-S-3-4-211006 Lab Sample ID: 860-13347-2
Date Collected: 10/06/21 09:21 **Matrix: Solid**
Date Received: 10/08/21 10:21 **Percent Solids: 71.2**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00350	U	0.00700	0.00350	mg/Kg	☼	10/11/21 11:34	10/19/21 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 144*	*10/11/21 11:34*	*10/19/21 13:17*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00555	U	0.0234	0.00555	mg/Kg	☼	10/12/21 08:39	10/13/21 17:44	1
Aroclor 1221	0.00555	U	0.0234	0.00555	mg/Kg	☼	10/12/21 08:39	10/13/21 17:44	1
Aroclor 1232	0.00555	U	0.0234	0.00555	mg/Kg	☼	10/12/21 08:39	10/13/21 17:44	1
Aroclor 1242	0.00555	U	0.0234	0.00555	mg/Kg	☼	10/12/21 08:39	10/13/21 17:44	1
Aroclor 1248	0.00555	U	0.0234	0.00555	mg/Kg	☼	10/12/21 08:39	10/13/21 17:44	1
Aroclor 1254	0.00366	U	0.0234	0.00366	mg/Kg	☼	10/12/21 08:39	10/13/21 17:44	1
Aroclor 1260	0.00366	U	0.0234	0.00366	mg/Kg	☼	10/12/21 08:39	10/13/21 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*35 - 140*	*10/12/21 08:39*	*10/13/21 17:44*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 142*	*10/12/21 08:39*	*10/13/21 17:44*	*1*

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell18-8-S-3-4-211006

Date Collected: 10/06/21 10:10
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-3

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.691	U	4.73	0.691	ug/Kg			10/12/21 16:37	1
Chloromethane	1.14	U	4.73	1.14	ug/Kg			10/12/21 16:37	1
Vinyl chloride	0.568	U	4.73	0.568	ug/Kg			10/12/21 16:37	1
Bromomethane	1.04	U	4.73	1.04	ug/Kg			10/12/21 16:37	1
Trichlorofluoromethane	0.473	U	4.73	0.473	ug/Kg			10/12/21 16:37	1
Acrolein	8.14	U	47.3	8.14	ug/Kg			10/12/21 16:37	1
1,1-Dichloroethene	0.473	U	4.73	0.473	ug/Kg			10/12/21 16:37	1
trans-1,2-Dichloroethene	0.473	U	4.73	0.473	ug/Kg			10/12/21 16:37	1
Methyl tert-butyl ether	0.578	U	4.73	0.578	ug/Kg			10/12/21 16:37	1
1,3-Dichlorobenzene	0.294	U	4.73	0.294	ug/Kg			10/12/21 16:37	1
Methylene Chloride	4.73	U	23.7	4.73	ug/Kg			10/12/21 16:37	1
Acrylonitrile	3.41	U	47.3	3.41	ug/Kg			10/12/21 16:37	1
cis-1,2-Dichloroethene	0.540	U	4.73	0.540	ug/Kg			10/12/21 16:37	1
Carbon tetrachloride	0.483	U	4.73	0.483	ug/Kg			10/12/21 16:37	1
Benzene	0.597	U	4.73	0.597	ug/Kg			10/12/21 16:37	1
1,2-Dichloroethane	0.492	U	4.73	0.492	ug/Kg			10/12/21 16:37	1
Trichloroethene	0.265	U	4.73	0.265	ug/Kg			10/12/21 16:37	1
1,1,1-Trichloroethane	0.473	U	4.73	0.473	ug/Kg			10/12/21 16:37	1
1,1-Dichloroethane	0.559	U	4.73	0.559	ug/Kg			10/12/21 16:37	1
1,2-Dichloropropane	0.473	U	4.73	0.473	ug/Kg			10/12/21 16:37	1
1,4-Dioxane	18.0	U	94.7	18.0	ug/Kg			10/12/21 16:37	1
Chloroform	0.824	U	4.73	0.824	ug/Kg			10/12/21 16:37	1
Bromodichloromethane	0.189	U	4.73	0.189	ug/Kg			10/12/21 16:37	1
1,1-Dichloropropene	0.492	U	4.73	0.492	ug/Kg			10/12/21 16:37	1
cis-1,3-Dichloropropene	0.426	U	4.73	0.426	ug/Kg			10/12/21 16:37	1
Toluene	0.852	U	4.73	0.852	ug/Kg			10/12/21 16:37	1
trans-1,3-Dichloropropene	0.492	U	4.73	0.492	ug/Kg			10/12/21 16:37	1
1,1,2-Trichloroethane	0.473	U	4.73	0.473	ug/Kg			10/12/21 16:37	1
Tetrachloroethene	0.701	U	4.73	0.701	ug/Kg			10/12/21 16:37	1
1,3-Dichloropropene, Total	0.492	U	4.73	0.492	ug/Kg			10/12/21 16:37	1
1,2-Dibromoethane	0.284	U	4.73	0.284	ug/Kg			10/12/21 16:37	1
Monochlorobenzene	0.284	U	4.73	0.284	ug/Kg			10/12/21 16:37	1
Ethylbenzene	0.426	U	4.73	0.426	ug/Kg			10/12/21 16:37	1
Xylenes, Total	0.473	U	9.47	0.473	ug/Kg			10/12/21 16:37	1
Styrene	0.284	U	4.73	0.284	ug/Kg			10/12/21 16:37	1
Tribromomethane	0.483	U	4.73	0.483	ug/Kg			10/12/21 16:37	1
1,1,2,2-Tetrachloroethane	0.360	U	4.73	0.360	ug/Kg			10/12/21 16:37	1
1,4-Dichlorobenzene	0.303	U	4.73	0.303	ug/Kg			10/12/21 16:37	1
1,2-Dichlorobenzene	0.237	U	4.73	0.237	ug/Kg			10/12/21 16:37	1
1,2,4-Trichlorobenzene	0.919	U	4.73	0.919	ug/Kg			10/12/21 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 152*		*10/12/21 16:37*	*1*
Toluene-d8 (Surr)	*99*		*65 - 139*		*10/12/21 16:37*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 136*		*10/12/21 16:37*	*1*
4-Bromofluorobenzene (Surr)	*96*		*61 - 142*		*10/12/21 16:37*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.8	U	64.7	11.8	ug/Kg		10/20/21 08:00	10/26/21 01:41	1

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Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell18-8-S-3-4-211006

Date Collected: 10/06/21 10:10
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-3

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*89*		*30 - 164*	*10/20/21 08:00*	*10/26/21 01:41*	*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		10/13/21 07:18	10/13/21 20:06	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
bis (2-chloroisopropyl) ether	17.8	U	166	17.8	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
2,6-Dinitrotoluene	23.3	U	166	23.3	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Anthracene	13.8	U	166	13.8	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Chrysene	16.5	U	166	16.5	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Dimethyl phthalate	15.9	U	166	15.9	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Fluorene	13.8	U	166	13.8	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Hexachloroethane	17.3	U	166	17.3	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Isophorone	14.5	U	166	14.5	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Pyrene	14.6	U	166	14.6	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Naphthalene	15.6	U	166	15.6	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		10/13/21 07:18	10/13/21 20:06	1

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell18-8-S-3-4-211006

Date Collected: 10/06/21 10:10
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-3

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	18.5	U	166	18.5	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		10/13/21 07:18	10/13/21 20:06	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/13/21 07:18	10/13/21 20:06	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	333	332	ug/Kg		10/13/21 07:18	10/13/21 20:06	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*	*10/13/21 07:18*	*10/13/21 20:06*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*30 - 115*	*10/13/21 07:18*	*10/13/21 20:06*	*1*
2-Fluorophenol	*82*		*25 - 121*	*10/13/21 07:18*	*10/13/21 20:06*	*1*
2,4,6-Tribromophenol	*72*		*19 - 122*	*10/13/21 07:18*	*10/13/21 20:06*	*1*
Nitrobenzene-d5	*81*		*23 - 129*	*10/13/21 07:18*	*10/13/21 20:06*	*1*
Phenol-d5 (Surr)	*78*		*24 - 113*	*10/13/21 07:18*	*10/13/21 20:06*	*1*
p-Terphenyl-d14 (Surr)	*78*		*18 - 137*	*10/13/21 07:18*	*10/13/21 20:06*	*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	49.7	21.0	mg/Kg		10/14/21 12:07	10/15/21 12:52	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.7	21.0	mg/Kg		10/14/21 12:07	10/15/21 12:52	1
Oil Range Organics (Over C28-C36)	21.0	U	49.7	21.0	mg/Kg		10/14/21 12:07	10/15/21 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*116*		*65 - 130*	*10/14/21 12:07*	*10/15/21 12:52*	*1*
1-Chlorooctane	*106*		*65 - 130*	*10/14/21 12:07*	*10/15/21 12:52*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	**0.312**	**J**	3.00	0.254	ug/Kg		10/12/21 08:39	10/18/21 19:29	1
Aldrin	0.363	U	3.00	0.363	ug/Kg		10/12/21 08:39	10/18/21 19:29	1
Hexachlorocyclohexane, alpha-	0.680	U	3.00	0.680	ug/Kg		10/12/21 08:39	10/18/21 19:29	1
Hexachlorocyclohexane, beta-	0.474	U	3.00	0.474	ug/Kg		10/12/21 08:39	10/18/21 19:29	1
Chlordane (technical)	23.9	U	83.0	23.9	ug/Kg		10/12/21 08:39	10/18/21 19:29	1
Hexachlorocyclohexane, delta-	0.833	U	3.00	0.833	ug/Kg		10/12/21 08:39	10/18/21 19:29	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/12/21 08:39	10/18/21 19:29	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/12/21 08:39	10/18/21 19:29	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/12/21 08:39	10/18/21 19:29	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/12/21 08:39	10/18/21 19:29	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/12/21 08:39	10/18/21 19:29	1
Endrin aldehyde	0.247	U	3.00	0.247	ug/Kg		10/12/21 08:39	10/18/21 19:29	1
Hexachlorocyclohexane, gamma-	0.439	U	3.00	0.439	ug/Kg		10/12/21 08:39	10/18/21 19:29	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/12/21 08:39	10/18/21 19:29	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/12/21 08:39	10/18/21 19:29	1
Toxaphene	11.3	U	83.0	11.3	ug/Kg		10/12/21 08:39	10/18/21 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*35 - 135*	*10/12/21 08:39*	*10/18/21 19:29*	*1*

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell18-8-S-3-4-211006

Date Collected: 10/06/21 10:10
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-3

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	71		25 - 143	10/12/21 08:39	10/18/21 19:29	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	0.0226	U	0.0996	0.0226	mg/Kg		10/14/21 18:05	10/16/21 01:46	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0428	U	0.199	0.0428	mg/Kg		10/14/21 18:05	10/16/21 01:46	1
2,4,6-Trinitrotoluene	0.0306	U	0.0996	0.0306	mg/Kg		10/14/21 18:05	10/16/21 01:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	103		83 - 122	10/14/21 18:05	10/16/21 01:46	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.1**		10.2	3.60	mg/Kg		10/21/21 18:53	10/22/21 01:43	1
Nitrate as N	**39.9**		1.02	0.110	mg/Kg		10/21/21 18:53	10/22/21 01:43	1
Fluoride	**5.46**		5.08	1.02	mg/Kg		10/21/21 18:53	10/22/21 01:43	1
Nitrite as N	**0.530**	**J**	1.02	0.0508	mg/Kg		10/21/21 18:53	10/22/21 01:43	1
Nitrate Nitrite as N	**40.4**	**b**	1.02	0.00508	mg/Kg		10/21/21 18:53	10/22/21 01:43	1
Sulfate	**201**		10.2	4.39	mg/Kg		10/21/21 18:53	10/22/21 01:43	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.507**		0.494	0.0814	ug/Kg		10/11/21 13:18	10/12/21 15:25	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	0.753	0.216	ug/Kg		10/13/21 10:29	10/15/21 11:12	1
Perfluorohexanesulfonic acid (PFHxS)	0.263	U	0.753	0.263	ug/Kg		10/13/21 10:29	10/15/21 11:12	1
Perfluorooctanesulfonic acid (PFOS)	0.132	U	0.753	0.132	ug/Kg		10/13/21 10:29	10/15/21 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	102		57 - 153	10/13/21 10:29	10/15/21 11:12	1
13C8 PFOS	98		70 - 130	10/13/21 10:29	10/15/21 11:12	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		10/12/21 11:40	10/13/21 21:43	10
Arsenic	**2.49**	**J**	3.57	0.551	mg/Kg		10/12/21 11:40	10/13/21 21:43	10
Barium	**254**		3.57	0.310	mg/Kg		10/12/21 11:40	10/13/21 21:43	10
Beryllium	0.165	U	1.79	0.165	mg/Kg		10/12/21 11:40	10/13/21 21:43	10
Cadmium	0.104	U	1.79	0.104	mg/Kg		10/12/21 11:40	10/13/21 21:43	10
Chromium	**2.13**	**J**	3.57	0.242	mg/Kg		10/12/21 11:40	10/13/21 21:43	10
Copper	**1.35**	**J**	3.57	0.233	mg/Kg		10/12/21 11:40	10/13/21 21:43	10
Iron	**1890**		17.9	2.09	mg/Kg		10/12/21 11:40	10/13/21 21:43	10
Manganese	**18.5**	**b**	1.79	0.227	mg/Kg		10/12/21 11:40	10/13/21 21:43	10
Lead	**1.18**	**J**	1.79	0.173	mg/Kg		10/12/21 11:40	10/13/21 21:43	10
Antimony	**0.137**	**J**	1.79	0.106	mg/Kg		10/12/21 11:40	10/13/21 21:43	10
Selenium	0.443	U	1.79	0.443	mg/Kg		10/12/21 11:40	10/13/21 21:43	10
Thallium	0.213	U	1.79	0.213	mg/Kg		10/12/21 11:40	10/13/21 21:43	10
Uranium	**0.379**	**J**	0.893	0.0534	mg/Kg		10/12/21 11:40	10/13/21 21:43	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-8-S-3-4-211006 Lab Sample ID: 860-13347-3
Date Collected: 10/06/21 10:10 **Matrix: Solid**
Date Received: 10/08/21 10:21

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	8.68	b	3.57	0.395	mg/Kg		10/12/21 11:40	10/14/21 18:13	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00780	J	0.0200	0.00384	mg/Kg		10/12/21 13:15	10/12/21 17:43	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		10/19/21 13:27	10/19/21 15:40	1
Phenols, Total	0.0573	U	0.0955	0.0573	mg/Kg		10/21/21 08:30	10/22/21 11:09	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.0				SU			10/12/21 13:07	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	186		10.0	10.0	mg/L			10/21/21 15:00	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	0.524		0.121	0.132	1.00	0.0944	pCi/g	10/13/21 10:30	11/08/21 09:00	1
Radium-228	0.223		0.177	0.178		0.185	pCi/g	10/13/21 10:30	11/08/21 09:00	1
Combined Radium 226 + 228	0.747		0.214	0.222		0.185	pCi/g	10/13/21 10:30	11/08/21 09:00	1

Client Sample ID: Cell18-8-S-3-4-211006 Lab Sample ID: 860-13347-3
Date Collected: 10/06/21 10:10 **Matrix: Solid**
Date Received: 10/08/21 10:21 **Percent Solids: 73.4**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00337	U	0.00674	0.00337	mg/Kg	☼	10/11/21 11:34	10/19/21 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*	*10/11/21 11:34*	*10/19/21 13:34*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00538	U	0.0227	0.00538	mg/Kg	☼	10/12/21 08:39	10/13/21 17:54	1
Aroclor 1221	0.00538	U	0.0227	0.00538	mg/Kg	☼	10/12/21 08:39	10/13/21 17:54	1
Aroclor 1232	0.00538	U	0.0227	0.00538	mg/Kg	☼	10/12/21 08:39	10/13/21 17:54	1
Aroclor 1242	0.00538	U	0.0227	0.00538	mg/Kg	☼	10/12/21 08:39	10/13/21 17:54	1
Aroclor 1248	0.00538	U	0.0227	0.00538	mg/Kg	☼	10/12/21 08:39	10/13/21 17:54	1
Aroclor 1254	0.00355	U	0.0227	0.00355	mg/Kg	☼	10/12/21 08:39	10/13/21 17:54	1
Aroclor 1260	0.00355	U	0.0227	0.00355	mg/Kg	☼	10/12/21 08:39	10/13/21 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*35 - 140*	*10/12/21 08:39*	*10/13/21 17:54*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*37 - 142*	*10/12/21 08:39*	*10/13/21 17:54*	*1*

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Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell18-162-S-3-4-211006

Date Collected: 10/06/21 11:04
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-4

Matrix: Solid

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			10/12/21 17:03	1
Chloromethane	1.08	U	4.51	1.08	ug/Kg			10/12/21 17:03	1
Vinyl chloride	0.542	U	4.51	0.542	ug/Kg			10/12/21 17:03	1
Bromomethane	0.993	U	4.51	0.993	ug/Kg			10/12/21 17:03	1
Trichlorofluoromethane	0.451	U	4.51	0.451	ug/Kg			10/12/21 17:03	1
Acrolein	7.76	U	45.1	7.76	ug/Kg			10/12/21 17:03	1
1,1-Dichloroethene	0.451	U	4.51	0.451	ug/Kg			10/12/21 17:03	1
trans-1,2-Dichloroethene	0.451	U	4.51	0.451	ug/Kg			10/12/21 17:03	1
Methyl tert-butyl ether	0.551	U	4.51	0.551	ug/Kg			10/12/21 17:03	1
1,3-Dichlorobenzene	0.280	U	4.51	0.280	ug/Kg			10/12/21 17:03	1
Methylene Chloride	4.51	U	22.6	4.51	ug/Kg			10/12/21 17:03	1
Acrylonitrile	3.25	U	45.1	3.25	ug/Kg			10/12/21 17:03	1
cis-1,2-Dichloroethene	0.514	U	4.51	0.514	ug/Kg			10/12/21 17:03	1
Carbon tetrachloride	0.460	U	4.51	0.460	ug/Kg			10/12/21 17:03	1
Benzene	0.569	U	4.51	0.569	ug/Kg			10/12/21 17:03	1
1,2-Dichloroethane	0.469	U	4.51	0.469	ug/Kg			10/12/21 17:03	1
Trichloroethene	0.253	U	4.51	0.253	ug/Kg			10/12/21 17:03	1
1,1,1-Trichloroethane	0.451	U	4.51	0.451	ug/Kg			10/12/21 17:03	1
1,1-Dichloroethane	0.532	U	4.51	0.532	ug/Kg			10/12/21 17:03	1
1,2-Dichloropropane	0.451	U	4.51	0.451	ug/Kg			10/12/21 17:03	1
1,4-Dioxane	17.1	U	90.3	17.1	ug/Kg			10/12/21 17:03	1
Chloroform	0.785	U	4.51	0.785	ug/Kg			10/12/21 17:03	1
Bromodichloromethane	0.181	U	4.51	0.181	ug/Kg			10/12/21 17:03	1
1,1-Dichloropropene	0.469	U	4.51	0.469	ug/Kg			10/12/21 17:03	1
cis-1,3-Dichloropropene	0.406	U	4.51	0.406	ug/Kg			10/12/21 17:03	1
Toluene	0.812	U	4.51	0.812	ug/Kg			10/12/21 17:03	1
trans-1,3-Dichloropropene	0.469	U	4.51	0.469	ug/Kg			10/12/21 17:03	1
1,1,2-Trichloroethane	0.451	U	4.51	0.451	ug/Kg			10/12/21 17:03	1
Tetrachloroethene	0.668	U	4.51	0.668	ug/Kg			10/12/21 17:03	1
1,3-Dichloropropene, Total	0.469	U	4.51	0.469	ug/Kg			10/12/21 17:03	1
1,2-Dibromoethane	0.271	U	4.51	0.271	ug/Kg			10/12/21 17:03	1
Monochlorobenzene	0.271	U	4.51	0.271	ug/Kg			10/12/21 17:03	1
Ethylbenzene	0.406	U	4.51	0.406	ug/Kg			10/12/21 17:03	1
Xylenes, Total	0.451	U	9.03	0.451	ug/Kg			10/12/21 17:03	1
Styrene	0.271	U	4.51	0.271	ug/Kg			10/12/21 17:03	1
Tribromomethane	0.460	U	4.51	0.460	ug/Kg			10/12/21 17:03	1
1,1,2,2-Tetrachloroethane	0.343	U	4.51	0.343	ug/Kg			10/12/21 17:03	1
1,4-Dichlorobenzene	0.289	U	4.51	0.289	ug/Kg			10/12/21 17:03	1
1,2-Dichlorobenzene	0.226	U	4.51	0.226	ug/Kg			10/12/21 17:03	1
1,2,4-Trichlorobenzene	0.875	U	4.51	0.875	ug/Kg			10/12/21 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*65 - 152*		*10/12/21 17:03*	*1*
Toluene-d8 (Surr)	*96*		*65 - 139*		*10/12/21 17:03*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 136*		*10/12/21 17:03*	*1*
4-Bromofluorobenzene (Surr)	*96*		*61 - 142*		*10/12/21 17:03*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.8	U	64.8	11.8	ug/Kg		10/20/21 08:00	10/26/21 02:08	1

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell18-162-S-3-4-211006

Date Collected: 10/06/21 11:04
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-4

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*98*		*30 - 164*	*10/20/21 08:00*	*10/26/21 02:08*	*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		10/13/21 07:18	10/13/21 20:27	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		10/13/21 07:18	10/13/21 20:27	1

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell18-162-S-3-4-211006

Date Collected: 10/06/21 11:04
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-4

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		10/13/21 07:18	10/13/21 20:27	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/13/21 07:18	10/13/21 20:27	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/13/21 07:18	10/13/21 20:27	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*	*10/13/21 07:18*	*10/13/21 20:27*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*30 - 115*	*10/13/21 07:18*	*10/13/21 20:27*	*1*
2-Fluorophenol	*84*		*25 - 121*	*10/13/21 07:18*	*10/13/21 20:27*	*1*
2,4,6-Tribromophenol	*72*		*19 - 122*	*10/13/21 07:18*	*10/13/21 20:27*	*1*
Nitrobenzene-d5	*80*		*23 - 129*	*10/13/21 07:18*	*10/13/21 20:27*	*1*
Phenol-d5 (Surr)	*81*		*24 - 113*	*10/13/21 07:18*	*10/13/21 20:27*	*1*
p-Terphenyl-d14 (Surr)	*79*		*18 - 137*	*10/13/21 07:18*	*10/13/21 20:27*	*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		10/14/21 12:07	10/15/21 13:10	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		10/14/21 12:07	10/15/21 13:10	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		10/14/21 12:07	10/15/21 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*112*		*65 - 130*	*10/14/21 12:07*	*10/15/21 13:10*	*1*
1-Chlorooctane	*103*		*65 - 130*	*10/14/21 12:07*	*10/15/21 13:10*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	3.00	0.254	ug/Kg		10/19/21 16:18	10/21/21 13:08	1
Aldrin	0.363	U	3.00	0.363	ug/Kg		10/19/21 16:18	10/21/21 13:08	1
Hexachlorocyclohexane, alpha-	0.681	U	3.00	0.681	ug/Kg		10/19/21 16:18	10/21/21 13:08	1
Hexachlorocyclohexane, beta-	0.474	U	3.00	0.474	ug/Kg		10/19/21 16:18	10/21/21 13:08	1
Chlordane (technical)	23.9	U	83.1	23.9	ug/Kg		10/19/21 16:18	10/21/21 13:08	1
Hexachlorocyclohexane, delta-	0.834	U	3.00	0.834	ug/Kg		10/19/21 16:18	10/21/21 13:08	1
Dieldrin	0.170	U	3.00	0.170	ug/Kg		10/19/21 16:18	10/21/21 13:08	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/19/21 16:18	10/21/21 13:08	1
Endosulfan II	0.373	U	3.00	0.373	ug/Kg		10/19/21 16:18	10/21/21 13:08	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/19/21 16:18	10/21/21 13:08	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/19/21 16:18	10/21/21 13:08	1
Endrin aldehyde	0.248	U *	3.00	0.248	ug/Kg		10/19/21 16:18	10/21/21 13:08	1
Hexachlorocyclohexane, gamma-	0.439	U	3.00	0.439	ug/Kg		10/19/21 16:18	10/21/21 13:08	1
Heptachlor	0.563	U	3.00	0.563	ug/Kg		10/19/21 16:18	10/21/21 13:08	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/19/21 16:18	10/21/21 13:08	1
Toxaphene	11.3	U	83.1	11.3	ug/Kg		10/19/21 16:18	10/21/21 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*35 - 135*	*10/19/21 16:18*	*10/21/21 13:08*	*1*

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell18-162-S-3-4-211006

Date Collected: 10/06/21 11:04
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-4

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	112		25 - 143	10/19/21 16:18	10/21/21 13:08	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	0.0218	U	0.0960	0.0218	mg/Kg		10/14/21 18:05	10/16/21 02:09	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0413	U	0.192	0.0413	mg/Kg		10/14/21 18:05	10/16/21 02:09	1
2,4,6-Trinitrotoluene	0.0295	U	0.0960	0.0295	mg/Kg		10/14/21 18:05	10/16/21 02:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	104		83 - 122	10/14/21 18:05	10/16/21 02:09	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.8**		9.84	3.48	mg/Kg		10/21/21 18:53	10/22/21 01:53	1
Nitrate as N	**24.7**		0.984	0.106	mg/Kg		10/21/21 18:53	10/22/21 01:53	1
Fluoride	**3.40**	**J**	4.92	0.984	mg/Kg		10/21/21 18:53	10/22/21 01:53	1
Nitrite as N	**0.461**	**J**	0.984	0.0492	mg/Kg		10/21/21 18:53	10/22/21 01:53	1
Nitrate Nitrite as N	**25.2**	**b**	0.984	0.00492	mg/Kg		10/21/21 18:53	10/22/21 01:53	1
Sulfate	**145**		9.84	4.25	mg/Kg		10/21/21 18:53	10/22/21 01:53	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.296**	**J**	0.498	0.0820	ug/Kg		10/11/21 13:18	10/12/21 15:30	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		10/13/21 10:29	10/15/21 11:20	1
Perfluorohexanesulfonic acid (PFHxS)	0.267	U	0.762	0.267	ug/Kg		10/13/21 10:29	10/15/21 11:20	1
Perfluorooctanesulfonic acid (PFOS)	0.133	U	0.762	0.133	ug/Kg		10/13/21 10:29	10/15/21 11:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	101		57 - 153	10/13/21 10:29	10/15/21 11:20	1
13C8 PFOS	99		70 - 130	10/13/21 10:29	10/15/21 11:20	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		10/12/21 11:40	10/13/21 21:46	10
Arsenic	**2.18**	**J**	3.70	0.571	mg/Kg		10/12/21 11:40	10/13/21 21:46	10
Barium	**149**		3.70	0.321	mg/Kg		10/12/21 11:40	10/13/21 21:46	10
Beryllium	0.171	U	1.85	0.171	mg/Kg		10/12/21 11:40	10/13/21 21:46	10
Cadmium	0.107	U	1.85	0.107	mg/Kg		10/12/21 11:40	10/13/21 21:46	10
Chromium	**1.24**	**J**	3.70	0.251	mg/Kg		10/12/21 11:40	10/13/21 21:46	10
Copper	**1.00**	**J**	3.70	0.242	mg/Kg		10/12/21 11:40	10/13/21 21:46	10
Iron	**982**		18.5	2.17	mg/Kg		10/12/21 11:40	10/13/21 21:46	10
Manganese	**12.2**	**b**	1.85	0.236	mg/Kg		10/12/21 11:40	10/13/21 21:46	10
Lead	**0.753**	**J**	1.85	0.179	mg/Kg		10/12/21 11:40	10/13/21 21:46	10
Antimony	0.110	U	1.85	0.110	mg/Kg		10/12/21 11:40	10/13/21 21:46	10
Selenium	0.459	U	1.85	0.459	mg/Kg		10/12/21 11:40	10/13/21 21:46	10
Thallium	0.221	U	1.85	0.221	mg/Kg		10/12/21 11:40	10/13/21 21:46	10
Uranium	**0.217**	**J**	0.926	0.0554	mg/Kg		10/12/21 11:40	10/13/21 21:46	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-162-S-3-4-211006 Lab Sample ID: 860-13347-4
Date Collected: 10/06/21 11:04 **Matrix: Solid**
Date Received: 10/08/21 10:21

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**30.4**	**b**	3.70	0.410	mg/Kg		10/12/21 11:40	10/14/21 18:16	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0196**		0.0185	0.00356	mg/Kg		10/12/21 13:15	10/12/21 17:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.8	U	60.1	29.8	ug/Kg		10/19/21 13:27	10/19/21 15:41	1
Phenols, Total	0.0599	U	0.0998	0.0599	mg/Kg		10/21/21 08:30	10/22/21 11:12	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.3**				SU			10/12/21 13:07	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**253**		10.0	10.0	mg/L			10/21/21 15:00	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	**1.26**		0.219	0.255	1.00	0.140	pCi/g	10/13/21 10:30	11/08/21 09:00	1
Radium-228	0.181	U	0.186	0.187		0.255	pCi/g	10/13/21 10:30	11/08/21 09:00	1
Combined Radium 226 + 228	**1.44**		0.287	0.316		0.255	pCi/g	10/13/21 10:30	11/08/21 09:00	1

Client Sample ID: Cell18-162-S-3-4-211006 Lab Sample ID: 860-13347-4
Date Collected: 10/06/21 11:04 **Matrix: Solid**
Date Received: 10/08/21 10:21 **Percent Solids: 89.5**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00277	U	0.00553	0.00277	mg/Kg	☼	10/11/21 11:34	10/19/21 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*	*10/11/21 11:34*	*10/19/21 13:51*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00441	U	0.0186	0.00441	mg/Kg	☼	10/12/21 08:39	10/13/21 18:03	1
Aroclor 1221	0.00441	U	0.0186	0.00441	mg/Kg	☼	10/12/21 08:39	10/13/21 18:03	1
Aroclor 1232	0.00441	U	0.0186	0.00441	mg/Kg	☼	10/12/21 08:39	10/13/21 18:03	1
Aroclor 1242	0.00441	U	0.0186	0.00441	mg/Kg	☼	10/12/21 08:39	10/13/21 18:03	1
Aroclor 1248	0.00441	U	0.0186	0.00441	mg/Kg	☼	10/12/21 08:39	10/13/21 18:03	1
Aroclor 1254	0.00291	U	0.0186	0.00291	mg/Kg	☼	10/12/21 08:39	10/13/21 18:03	1
Aroclor 1260	0.00291	U	0.0186	0.00291	mg/Kg	☼	10/12/21 08:39	10/13/21 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*35 - 140*	*10/12/21 08:39*	*10/13/21 18:03*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 142*	*10/12/21 08:39*	*10/13/21 18:03*	*1*

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell18-76-S-3-4-211006

Date Collected: 10/06/21 10:38
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-5

Matrix: Solid

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			10/12/21 17:29	1
Chloromethane	1.08	U	4.52	1.08	ug/Kg			10/12/21 17:29	1
Vinyl chloride	0.542	U	4.52	0.542	ug/Kg			10/12/21 17:29	1
Bromomethane	0.995	U	4.52	0.995	ug/Kg			10/12/21 17:29	1
Trichlorofluoromethane	0.452	U	4.52	0.452	ug/Kg			10/12/21 17:29	1
Acrolein	7.78	U	45.2	7.78	ug/Kg			10/12/21 17:29	1
1,1-Dichloroethene	0.452	U	4.52	0.452	ug/Kg			10/12/21 17:29	1
trans-1,2-Dichloroethene	0.452	U	4.52	0.452	ug/Kg			10/12/21 17:29	1
Methyl tert-butyl ether	0.552	U	4.52	0.552	ug/Kg			10/12/21 17:29	1
1,3-Dichlorobenzene	0.280	U	4.52	0.280	ug/Kg			10/12/21 17:29	1
Methylene Chloride	4.52	U	22.6	4.52	ug/Kg			10/12/21 17:29	1
Acrylonitrile	3.25	U	45.2	3.25	ug/Kg			10/12/21 17:29	1
cis-1,2-Dichloroethene	0.515	U	4.52	0.515	ug/Kg			10/12/21 17:29	1
Carbon tetrachloride	0.461	U	4.52	0.461	ug/Kg			10/12/21 17:29	1
Benzene	0.570	U	4.52	0.570	ug/Kg			10/12/21 17:29	1
1,2-Dichloroethane	0.470	U	4.52	0.470	ug/Kg			10/12/21 17:29	1
Trichloroethene	0.253	U	4.52	0.253	ug/Kg			10/12/21 17:29	1
1,1,1-Trichloroethane	0.452	U	4.52	0.452	ug/Kg			10/12/21 17:29	1
1,1-Dichloroethane	0.533	U	4.52	0.533	ug/Kg			10/12/21 17:29	1
1,2-Dichloropropane	0.452	U	4.52	0.452	ug/Kg			10/12/21 17:29	1
1,4-Dioxane	17.2	U	90.4	17.2	ug/Kg			10/12/21 17:29	1
Chloroform	0.787	U	4.52	0.787	ug/Kg			10/12/21 17:29	1
Bromodichloromethane	0.181	U	4.52	0.181	ug/Kg			10/12/21 17:29	1
1,1-Dichloropropene	0.470	U	4.52	0.470	ug/Kg			10/12/21 17:29	1
cis-1,3-Dichloropropene	0.407	U	4.52	0.407	ug/Kg			10/12/21 17:29	1
Toluene	0.814	U	4.52	0.814	ug/Kg			10/12/21 17:29	1
trans-1,3-Dichloropropene	0.470	U	4.52	0.470	ug/Kg			10/12/21 17:29	1
1,1,2-Trichloroethane	0.452	U	4.52	0.452	ug/Kg			10/12/21 17:29	1
Tetrachloroethene	0.669	U	4.52	0.669	ug/Kg			10/12/21 17:29	1
1,3-Dichloropropene, Total	0.470	U	4.52	0.470	ug/Kg			10/12/21 17:29	1
1,2-Dibromoethane	0.271	U	4.52	0.271	ug/Kg			10/12/21 17:29	1
Monochlorobenzene	0.271	U	4.52	0.271	ug/Kg			10/12/21 17:29	1
Ethylbenzene	0.407	U	4.52	0.407	ug/Kg			10/12/21 17:29	1
Xylenes, Total	0.452	U	9.04	0.452	ug/Kg			10/12/21 17:29	1
Styrene	0.271	U	4.52	0.271	ug/Kg			10/12/21 17:29	1
Tribromomethane	0.461	U	4.52	0.461	ug/Kg			10/12/21 17:29	1
1,1,2,2-Tetrachloroethane	0.344	U	4.52	0.344	ug/Kg			10/12/21 17:29	1
1,4-Dichlorobenzene	0.289	U	4.52	0.289	ug/Kg			10/12/21 17:29	1
1,2-Dichlorobenzene	0.226	U	4.52	0.226	ug/Kg			10/12/21 17:29	1
1,2,4-Trichlorobenzene	0.877	U	4.52	0.877	ug/Kg			10/12/21 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 152*		*10/12/21 17:29*	*1*
Toluene-d8 (Surr)	*98*		*65 - 139*		*10/12/21 17:29*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 136*		*10/12/21 17:29*	*1*
4-Bromofluorobenzene (Surr)	*96*		*61 - 142*		*10/12/21 17:29*	*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		10/20/21 08:00	10/26/21 02:35	1

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell18-76-S-3-4-211006

Date Collected: 10/06/21 10:38
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-5

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*100*		*30 - 164*	*10/20/21 08:00*	*10/26/21 02:35*	*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		10/13/21 07:18	10/13/21 20:47	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		10/13/21 07:18	10/13/21 20:47	1

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell18-76-S-3-4-211006

Date Collected: 10/06/21 10:38
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-5

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/13/21 07:18	10/13/21 20:47	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/13/21 07:18	10/13/21 20:47	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/13/21 07:18	10/13/21 20:47	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*	*10/13/21 07:18*	*10/13/21 20:47*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*30 - 115*	*10/13/21 07:18*	*10/13/21 20:47*	*1*
2-Fluorophenol	*82*		*25 - 121*	*10/13/21 07:18*	*10/13/21 20:47*	*1*
2,4,6-Tribromophenol	*71*		*19 - 122*	*10/13/21 07:18*	*10/13/21 20:47*	*1*
Nitrobenzene-d5	*80*		*23 - 129*	*10/13/21 07:18*	*10/13/21 20:47*	*1*
Phenol-d5 (Surr)	*78*		*24 - 113*	*10/13/21 07:18*	*10/13/21 20:47*	*1*
p-Terphenyl-d14 (Surr)	*79*		*18 - 137*	*10/13/21 07:18*	*10/13/21 20:47*	*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		10/14/21 12:07	10/15/21 13:28	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		10/14/21 12:07	10/15/21 13:28	1
Oil Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		10/14/21 12:07	10/15/21 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*110*		*65 - 130*	*10/14/21 12:07*	*10/15/21 13:28*	*1*
1-Chlorooctane	*102*		*65 - 130*	*10/14/21 12:07*	*10/15/21 13:28*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	3.00	0.254	ug/Kg		10/12/21 08:39	10/18/21 20:11	1
Aldrin	0.362	U	3.00	0.362	ug/Kg		10/12/21 08:39	10/18/21 20:11	1
Hexachlorocyclohexane, alpha-	0.679	U	3.00	0.679	ug/Kg		10/12/21 08:39	10/18/21 20:11	1
Hexachlorocyclohexane, beta-	0.473	U	3.00	0.473	ug/Kg		10/12/21 08:39	10/18/21 20:11	1
Chlordane (technical)	23.9	U	82.9	23.9	ug/Kg		10/12/21 08:39	10/18/21 20:11	1
Hexachlorocyclohexane, delta-	0.832	U	3.00	0.832	ug/Kg		10/12/21 08:39	10/18/21 20:11	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/12/21 08:39	10/18/21 20:11	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/12/21 08:39	10/18/21 20:11	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/12/21 08:39	10/18/21 20:11	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/12/21 08:39	10/18/21 20:11	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/12/21 08:39	10/18/21 20:11	1
Endrin aldehyde	0.247	U	3.00	0.247	ug/Kg		10/12/21 08:39	10/18/21 20:11	1
Hexachlorocyclohexane, gamma-	0.438	U	3.00	0.438	ug/Kg		10/12/21 08:39	10/18/21 20:11	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/12/21 08:39	10/18/21 20:11	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/12/21 08:39	10/18/21 20:11	1
Toxaphene	11.3	U	82.9	11.3	ug/Kg		10/12/21 08:39	10/18/21 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*35 - 135*	*10/12/21 08:39*	*10/18/21 20:11*	*1*

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell18-76-S-3-4-211006

Date Collected: 10/06/21 10:38
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-5

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	85		25 - 143	10/12/21 08:39	10/18/21 20:11	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	0.0992	0.0225	mg/Kg		10/14/21 18:05	10/16/21 02:32	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0427	U	0.198	0.0427	mg/Kg		10/14/21 18:05	10/16/21 02:32	1
2,4,6-Trinitrotoluene	0.0305	U	0.0992	0.0305	mg/Kg		10/14/21 18:05	10/16/21 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	106		83 - 122	10/14/21 18:05	10/16/21 02:32	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**161**		9.82	3.48	mg/Kg		10/21/21 18:53	10/22/21 02:04	1
Nitrate as N	**38.5**		0.982	0.106	mg/Kg		10/21/21 18:53	10/22/21 02:04	1
Fluoride	**4.05**	**J**	4.91	0.982	mg/Kg		10/21/21 18:53	10/22/21 02:04	1
Nitrite as N	**0.437**	**J**	0.982	0.0491	mg/Kg		10/21/21 18:53	10/22/21 02:04	1
Nitrate Nitrite as N	**38.9**	**b**	0.982	0.00491	mg/Kg		10/21/21 18:53	10/22/21 02:04	1
Sulfate	**230**		9.82	4.24	mg/Kg		10/21/21 18:53	10/22/21 02:04	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.247**	**J**	0.480	0.0791	ug/Kg		10/11/21 13:18	10/12/21 15:35	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	0.755	0.217	ug/Kg		10/13/21 10:29	10/15/21 11:29	1
Perfluorohexanesulfonic acid (PFHxS)	0.264	U	0.755	0.264	ug/Kg		10/13/21 10:29	10/15/21 11:29	1
Perfluorooctanesulfonic acid (PFOS)	0.132	U	0.755	0.132	ug/Kg		10/13/21 10:29	10/15/21 11:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	10/13/21 10:29	10/15/21 11:29	1
13C8 PFOS	105		70 - 130	10/13/21 10:29	10/15/21 11:29	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		10/12/21 11:40	10/13/21 21:49	10
Arsenic	**3.74**		3.70	0.571	mg/Kg		10/12/21 11:40	10/13/21 21:49	10
Barium	**357**		3.70	0.321	mg/Kg		10/12/21 11:40	10/13/21 21:49	10
Beryllium	0.171	U	1.85	0.171	mg/Kg		10/12/21 11:40	10/13/21 21:49	10
Cadmium	0.107	U	1.85	0.107	mg/Kg		10/12/21 11:40	10/13/21 21:49	10
Chromium	**2.12**	**J**	3.70	0.251	mg/Kg		10/12/21 11:40	10/13/21 21:49	10
Copper	**1.36**	**J**	3.70	0.242	mg/Kg		10/12/21 11:40	10/13/21 21:49	10
Iron	**1880**		18.5	2.17	mg/Kg		10/12/21 11:40	10/13/21 21:49	10
Manganese	**21.1**	**b**	1.85	0.236	mg/Kg		10/12/21 11:40	10/13/21 21:49	10
Lead	**1.36**	**J**	1.85	0.179	mg/Kg		10/12/21 11:40	10/13/21 21:49	10
Antimony	**0.169**	**J**	1.85	0.110	mg/Kg		10/12/21 11:40	10/13/21 21:49	10
Selenium	0.459	U	1.85	0.459	mg/Kg		10/12/21 11:40	10/13/21 21:49	10
Thallium	0.221	U	1.85	0.221	mg/Kg		10/12/21 11:40	10/13/21 21:49	10
Uranium	**0.397**	**J**	0.926	0.0554	mg/Kg		10/12/21 11:40	10/13/21 21:49	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-76-S-3-4-211006 Lab Sample ID: 860-13347-5
Date Collected: 10/06/21 10:38 **Matrix: Solid**
Date Received: 10/08/21 10:21

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**10.5**	**b**	3.70	0.410	mg/Kg		10/12/21 11:40	10/14/21 18:26	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00529**	**J**	0.0196	0.00377	mg/Kg		10/12/21 13:15	10/12/21 17:46	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		10/19/21 13:27	10/19/21 15:45	1
Phenols, Total	0.0590	U	0.0984	0.0590	mg/Kg		10/21/21 08:30	10/22/21 11:20	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.5**	**H**			SU			10/14/21 14:34	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**247**		10.0	10.0	mg/L			10/21/21 15:00	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	**1.46**		0.236	0.279	1.00	0.0986	pCi/g	10/13/21 10:30	11/08/21 09:01	1
Radium-228	0.128	U	0.227	0.228		0.339	pCi/g	10/13/21 10:30	11/08/21 09:01	1
Combined Radium 226 + 228	**1.58**		0.327	0.360		0.339	pCi/g	10/13/21 10:30	11/08/21 09:01	1

Client Sample ID: Cell18-76-S-3-4-211006 Lab Sample ID: 860-13347-5
Date Collected: 10/06/21 10:38 **Matrix: Solid**
Date Received: 10/08/21 10:21 **Percent Solids: 90.6**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00274	U	0.00547	0.00274	mg/Kg	☼	10/11/21 11:34	10/19/21 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 144*	*10/11/21 11:34*	*10/19/21 14:08*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00436	U	0.0184	0.00436	mg/Kg	☼	10/12/21 08:39	10/13/21 18:13	1
Aroclor 1221	0.00436	U	0.0184	0.00436	mg/Kg	☼	10/12/21 08:39	10/13/21 18:13	1
Aroclor 1232	0.00436	U	0.0184	0.00436	mg/Kg	☼	10/12/21 08:39	10/13/21 18:13	1
Aroclor 1242	0.00436	U	0.0184	0.00436	mg/Kg	☼	10/12/21 08:39	10/13/21 18:13	1
Aroclor 1248	0.00436	U	0.0184	0.00436	mg/Kg	☼	10/12/21 08:39	10/13/21 18:13	1
Aroclor 1254	0.00287	U	0.0184	0.00287	mg/Kg	☼	10/12/21 08:39	10/13/21 18:13	1
Aroclor 1260	0.00287	U	0.0184	0.00287	mg/Kg	☼	10/12/21 08:39	10/13/21 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*35 - 140*	*10/12/21 08:39*	*10/13/21 18:13*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*37 - 142*	*10/12/21 08:39*	*10/13/21 18:13*	*1*

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell17-127-S-3-4-211006

Date Collected: 10/06/21 11:48
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-6

Matrix: Solid

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			10/12/21 17:54	1
Chloromethane	1.18	U	4.91	1.18	ug/Kg			10/12/21 17:54	1
Vinyl chloride	0.589	U	4.91	0.589	ug/Kg			10/12/21 17:54	1
Bromomethane	1.08	U	4.91	1.08	ug/Kg			10/12/21 17:54	1
Trichlorofluoromethane	0.491	U	4.91	0.491	ug/Kg			10/12/21 17:54	1
Acrolein	8.45	U	49.1	8.45	ug/Kg			10/12/21 17:54	1
1,1-Dichloroethene	0.491	U	4.91	0.491	ug/Kg			10/12/21 17:54	1
trans-1,2-Dichloroethene	0.491	U	4.91	0.491	ug/Kg			10/12/21 17:54	1
Methyl tert-butyl ether	0.599	U	4.91	0.599	ug/Kg			10/12/21 17:54	1
1,3-Dichlorobenzene	0.305	U	4.91	0.305	ug/Kg			10/12/21 17:54	1
Methylene Chloride	4.91	U	24.6	4.91	ug/Kg			10/12/21 17:54	1
Acrylonitrile	3.54	U	49.1	3.54	ug/Kg			10/12/21 17:54	1
cis-1,2-Dichloroethene	0.560	U	4.91	0.560	ug/Kg			10/12/21 17:54	1
Carbon tetrachloride	0.501	U	4.91	0.501	ug/Kg			10/12/21 17:54	1
Benzene	0.619	U	4.91	0.619	ug/Kg			10/12/21 17:54	1
1,2-Dichloroethane	0.511	U	4.91	0.511	ug/Kg			10/12/21 17:54	1
Trichloroethene	0.275	U	4.91	0.275	ug/Kg			10/12/21 17:54	1
1,1,1-Trichloroethane	0.491	U	4.91	0.491	ug/Kg			10/12/21 17:54	1
1,1-Dichloroethane	0.580	U	4.91	0.580	ug/Kg			10/12/21 17:54	1
1,2-Dichloropropane	0.491	U	4.91	0.491	ug/Kg			10/12/21 17:54	1
1,4-Dioxane	18.7	U	98.2	18.7	ug/Kg			10/12/21 17:54	1
Chloroform	0.855	U	4.91	0.855	ug/Kg			10/12/21 17:54	1
Bromodichloromethane	0.196	U	4.91	0.196	ug/Kg			10/12/21 17:54	1
1,1-Dichloropropene	0.511	U	4.91	0.511	ug/Kg			10/12/21 17:54	1
cis-1,3-Dichloropropene	0.442	U	4.91	0.442	ug/Kg			10/12/21 17:54	1
Toluene	0.884	U	4.91	0.884	ug/Kg			10/12/21 17:54	1
trans-1,3-Dichloropropene	0.511	U	4.91	0.511	ug/Kg			10/12/21 17:54	1
1,1,2-Trichloroethane	0.491	U	4.91	0.491	ug/Kg			10/12/21 17:54	1
Tetrachloroethene	0.727	U	4.91	0.727	ug/Kg			10/12/21 17:54	1
1,3-Dichloropropene, Total	0.511	U	4.91	0.511	ug/Kg			10/12/21 17:54	1
1,2-Dibromoethane	0.295	U	4.91	0.295	ug/Kg			10/12/21 17:54	1
Monochlorobenzene	0.295	U	4.91	0.295	ug/Kg			10/12/21 17:54	1
Ethylbenzene	0.442	U	4.91	0.442	ug/Kg			10/12/21 17:54	1
Xylenes, Total	0.491	U	9.82	0.491	ug/Kg			10/12/21 17:54	1
Styrene	0.295	U	4.91	0.295	ug/Kg			10/12/21 17:54	1
Tribromomethane	0.501	U	4.91	0.501	ug/Kg			10/12/21 17:54	1
1,1,2,2-Tetrachloroethane	0.373	U	4.91	0.373	ug/Kg			10/12/21 17:54	1
1,4-Dichlorobenzene	0.314	U	4.91	0.314	ug/Kg			10/12/21 17:54	1
1,2-Dichlorobenzene	0.246	U	4.91	0.246	ug/Kg			10/12/21 17:54	1
1,2,4-Trichlorobenzene	0.953	U	4.91	0.953	ug/Kg			10/12/21 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 152*		*10/12/21 17:54*	*1*
Toluene-d8 (Surr)	*97*		*65 - 139*		*10/12/21 17:54*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 136*		*10/12/21 17:54*	*1*
4-Bromofluorobenzene (Surr)	*95*		*61 - 142*		*10/12/21 17:54*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.8	U	64.8	11.8	ug/Kg		10/20/21 08:00	10/26/21 08:17	1

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Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell17-127-S-3-4-211006

Date Collected: 10/06/21 11:48
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-6

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*94*		*30 - 164*	*10/20/21 08:00*	*10/26/21 08:17*	*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		10/13/21 07:18	10/13/21 21:07	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
bis (2-chloroisopropyl) ether	17.8	U	166	17.8	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
2,6-Dinitrotoluene	23.3	U	166	23.3	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Anthracene	13.8	U	166	13.8	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Chrysene	16.5	U	166	16.5	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Dimethyl phthalate	15.9	U	166	15.9	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Fluorene	13.8	U	166	13.8	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Hexachloroethane	17.3	U	166	17.3	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Isophorone	14.5	U	166	14.5	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Pyrene	14.6	U	166	14.6	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Naphthalene	15.6	U	166	15.6	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		10/13/21 07:18	10/13/21 21:07	1

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell17-127-S-3-4-211006

Date Collected: 10/06/21 11:48
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-6

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	18.5	U	166	18.5	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		10/13/21 07:18	10/13/21 21:07	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/13/21 07:18	10/13/21 21:07	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	333	332	ug/Kg		10/13/21 07:18	10/13/21 21:07	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*	*10/13/21 07:18*	*10/13/21 21:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*30 - 115*	*10/13/21 07:18*	*10/13/21 21:07*	*1*
2-Fluorophenol	*89*		*25 - 121*	*10/13/21 07:18*	*10/13/21 21:07*	*1*
2,4,6-Tribromophenol	*80*		*19 - 122*	*10/13/21 07:18*	*10/13/21 21:07*	*1*
Nitrobenzene-d5	*87*		*23 - 129*	*10/13/21 07:18*	*10/13/21 21:07*	*1*
Phenol-d5 (Surr)	*85*		*24 - 113*	*10/13/21 07:18*	*10/13/21 21:07*	*1*
p-Terphenyl-d14 (Surr)	*87*		*18 - 137*	*10/13/21 07:18*	*10/13/21 21:07*	*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	49.7	21.0	mg/Kg		10/14/21 12:07	10/15/21 13:46	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.7	21.0	mg/Kg		10/14/21 12:07	10/15/21 13:46	1
Oil Range Organics (Over C28-C36)	21.0	U	49.7	21.0	mg/Kg		10/14/21 12:07	10/15/21 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*113*		*65 - 130*	*10/14/21 12:07*	*10/15/21 13:46*	*1*
1-Chlorooctane	*104*		*65 - 130*	*10/14/21 12:07*	*10/15/21 13:46*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	3.00	0.254	ug/Kg		10/12/21 08:39	10/18/21 20:24	1
Aldrin	0.363	U	3.00	0.363	ug/Kg		10/12/21 08:39	10/18/21 20:24	1
Hexachlorocyclohexane, alpha-	0.680	U	3.00	0.680	ug/Kg		10/12/21 08:39	10/18/21 20:24	1
Hexachlorocyclohexane, beta-	0.473	U	3.00	0.473	ug/Kg		10/12/21 08:39	10/18/21 20:24	1
Chlordane (technical)	23.9	U	82.9	23.9	ug/Kg		10/12/21 08:39	10/18/21 20:24	1
Hexachlorocyclohexane, delta-	0.833	U	3.00	0.833	ug/Kg		10/12/21 08:39	10/18/21 20:24	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/12/21 08:39	10/18/21 20:24	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/12/21 08:39	10/18/21 20:24	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/12/21 08:39	10/18/21 20:24	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/12/21 08:39	10/18/21 20:24	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/12/21 08:39	10/18/21 20:24	1
Endrin aldehyde	0.247	U	3.00	0.247	ug/Kg		10/12/21 08:39	10/18/21 20:24	1
Hexachlorocyclohexane, gamma-	0.438	U	3.00	0.438	ug/Kg		10/12/21 08:39	10/18/21 20:24	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/12/21 08:39	10/18/21 20:24	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/12/21 08:39	10/18/21 20:24	1
Toxaphene	11.3	U	82.9	11.3	ug/Kg		10/12/21 08:39	10/18/21 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*35 - 135*	*10/12/21 08:39*	*10/18/21 20:24*	*1*

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell17-127-S-3-4-211006

Date Collected: 10/06/21 11:48
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-6

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	84		25 - 143	10/12/21 08:39	10/18/21 20:24	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	0.0223	U	0.0983	0.0223	mg/Kg		10/14/21 18:05	10/16/21 03:18	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0423	U	0.197	0.0423	mg/Kg		10/14/21 18:05	10/16/21 03:18	1
2,4,6-Trinitrotoluene	0.0302	U	0.0983	0.0302	mg/Kg		10/14/21 18:05	10/16/21 03:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	104		83 - 122	10/14/21 18:05	10/16/21 03:18	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**148**		9.94	3.52	mg/Kg		10/21/21 18:53	10/22/21 02:36	1
Nitrate as N	**32.7**		0.994	0.107	mg/Kg		10/21/21 18:53	10/22/21 02:36	1
Fluoride	**4.04**	**J**	4.97	0.994	mg/Kg		10/21/21 18:53	10/22/21 02:36	1
Nitrite as N	**0.432**	**J**	0.994	0.0497	mg/Kg		10/21/21 18:53	10/22/21 02:36	1
Nitrate Nitrite as N	**33.2**	**b**	0.994	0.00497	mg/Kg		10/21/21 18:53	10/22/21 02:36	1
Sulfate	**161**		9.94	4.29	mg/Kg		10/21/21 18:53	10/22/21 02:36	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.254**	**J**	0.463	0.0764	ug/Kg		10/11/21 13:18	10/12/21 15:40	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	0.794	0.228	ug/Kg		10/13/21 10:29	10/15/21 11:47	1
Perfluorohexanesulfonic acid (PFHxS)	0.278	U	0.794	0.278	ug/Kg		10/13/21 10:29	10/15/21 11:47	1
Perfluorooctanesulfonic acid (PFOS)	0.139	U	0.794	0.139	ug/Kg		10/13/21 10:29	10/15/21 11:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	101		57 - 153	10/13/21 10:29	10/15/21 11:47	1
13C8 PFOS	101		70 - 130	10/13/21 10:29	10/15/21 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		10/12/21 11:40	10/13/21 21:52	10
Arsenic	**2.01**	**J**	3.57	0.551	mg/Kg		10/12/21 11:40	10/13/21 21:52	10
Barium	**205**		3.57	0.310	mg/Kg		10/12/21 11:40	10/13/21 21:52	10
Beryllium	0.165	U	1.79	0.165	mg/Kg		10/12/21 11:40	10/13/21 21:52	10
Cadmium	0.104	U	1.79	0.104	mg/Kg		10/12/21 11:40	10/13/21 21:52	10
Chromium	**1.87**	**J**	3.57	0.242	mg/Kg		10/12/21 11:40	10/13/21 21:52	10
Copper	**1.26**	**J**	3.57	0.233	mg/Kg		10/12/21 11:40	10/13/21 21:52	10
Iron	**1660**		17.9	2.09	mg/Kg		10/12/21 11:40	10/13/21 21:52	10
Manganese	**22.0**	**b**	1.79	0.227	mg/Kg		10/12/21 11:40	10/13/21 21:52	10
Lead	**1.44**	**J**	1.79	0.173	mg/Kg		10/12/21 11:40	10/13/21 21:52	10
Antimony	**0.116**	**J**	1.79	0.106	mg/Kg		10/12/21 11:40	10/13/21 21:52	10
Selenium	0.443	U	1.79	0.443	mg/Kg		10/12/21 11:40	10/13/21 21:52	10
Thallium	0.213	U	1.79	0.213	mg/Kg		10/12/21 11:40	10/13/21 21:52	10
Uranium	**0.267**	**J**	0.893	0.0534	mg/Kg		10/12/21 11:40	10/13/21 21:52	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-127-S-3-4-211006 Lab Sample ID: 860-13347-6
Date Collected: 10/06/21 11:48 **Matrix: Solid**
Date Received: 10/08/21 10:21

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	7.74	b	3.57	0.395	mg/Kg		10/12/21 11:40	10/14/21 18:29	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		10/12/21 13:15	10/12/21 17:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.8	U	60.0	29.8	ug/Kg		10/19/21 13:27	10/19/21 15:47	1
Phenols, Total	0.0598	U	0.0997	0.0598	mg/Kg		10/21/21 08:30	10/22/21 11:22	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.7	H			SU			10/14/21 14:34	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	498		10.0	10.0	mg/L			10/21/21 15:00	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	0.936		0.184	0.207	1.00	0.0929	pCi/g	10/13/21 10:30	11/08/21 09:08	1
Radium-228	0.383		0.186	0.190		0.206	pCi/g	10/13/21 10:30	11/08/21 09:08	1
Combined Radium 226 + 228	1.32		0.262	0.281		0.206	pCi/g	10/13/21 10:30	11/08/21 09:08	1

Client Sample ID: Cell17-127-S-3-4-211006 Lab Sample ID: 860-13347-6
Date Collected: 10/06/21 11:48 **Matrix: Solid**
Date Received: 10/08/21 10:21 **Percent Solids: 73.7**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00338	U	0.00676	0.00338	mg/Kg	☼	10/11/21 11:34	10/19/21 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 144*	*10/11/21 11:34*	*10/19/21 14:25*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00536	U	0.0226	0.00536	mg/Kg	☼	10/12/21 08:39	10/13/21 18:22	1
Aroclor 1221	0.00536	U	0.0226	0.00536	mg/Kg	☼	10/12/21 08:39	10/13/21 18:22	1
Aroclor 1232	0.00536	U	0.0226	0.00536	mg/Kg	☼	10/12/21 08:39	10/13/21 18:22	1
Aroclor 1242	0.00536	U	0.0226	0.00536	mg/Kg	☼	10/12/21 08:39	10/13/21 18:22	1
Aroclor 1248	0.00536	U	0.0226	0.00536	mg/Kg	☼	10/12/21 08:39	10/13/21 18:22	1
Aroclor 1254	0.00353	U	0.0226	0.00353	mg/Kg	☼	10/12/21 08:39	10/13/21 18:22	1
Aroclor 1260	0.00353	U	0.0226	0.00353	mg/Kg	☼	10/12/21 08:39	10/13/21 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*35 - 140*	*10/12/21 08:39*	*10/13/21 18:22*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*37 - 142*	*10/12/21 08:39*	*10/13/21 18:22*	*1*

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell17-23-S-3-4-211006

Date Collected: 10/06/21 12:41
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-7

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.709	U	4.85	0.709	ug/Kg			10/12/21 18:19	1
Chloromethane	1.17	U	4.85	1.17	ug/Kg			10/12/21 18:19	1
Vinyl chloride	0.583	U	4.85	0.583	ug/Kg			10/12/21 18:19	1
Bromomethane	1.07	U	4.85	1.07	ug/Kg			10/12/21 18:19	1
Trichlorofluoromethane	0.485	U	4.85	0.485	ug/Kg			10/12/21 18:19	1
Acrolein	8.35	U	48.5	8.35	ug/Kg			10/12/21 18:19	1
1,1-Dichloroethene	0.485	U	4.85	0.485	ug/Kg			10/12/21 18:19	1
trans-1,2-Dichloroethene	0.485	U	4.85	0.485	ug/Kg			10/12/21 18:19	1
Methyl tert-butyl ether	0.592	U	4.85	0.592	ug/Kg			10/12/21 18:19	1
1,3-Dichlorobenzene	0.301	U	4.85	0.301	ug/Kg			10/12/21 18:19	1
Methylene Chloride	4.85	U	24.3	4.85	ug/Kg			10/12/21 18:19	1
Acrylonitrile	3.50	U	48.5	3.50	ug/Kg			10/12/21 18:19	1
cis-1,2-Dichloroethene	0.553	U	4.85	0.553	ug/Kg			10/12/21 18:19	1
Carbon tetrachloride	0.495	U	4.85	0.495	ug/Kg			10/12/21 18:19	1
Benzene	0.612	U	4.85	0.612	ug/Kg			10/12/21 18:19	1
1,2-Dichloroethane	0.505	U	4.85	0.505	ug/Kg			10/12/21 18:19	1
Trichloroethene	0.272	U	4.85	0.272	ug/Kg			10/12/21 18:19	1
1,1,1-Trichloroethane	0.485	U	4.85	0.485	ug/Kg			10/12/21 18:19	1
1,1-Dichloroethane	0.573	U	4.85	0.573	ug/Kg			10/12/21 18:19	1
1,2-Dichloropropane	0.485	U	4.85	0.485	ug/Kg			10/12/21 18:19	1
1,4-Dioxane	18.4	U	97.1	18.4	ug/Kg			10/12/21 18:19	1
Chloroform	0.845	U	4.85	0.845	ug/Kg			10/12/21 18:19	1
Bromodichloromethane	0.194	U	4.85	0.194	ug/Kg			10/12/21 18:19	1
1,1-Dichloropropene	0.505	U	4.85	0.505	ug/Kg			10/12/21 18:19	1
cis-1,3-Dichloropropene	0.437	U	4.85	0.437	ug/Kg			10/12/21 18:19	1
Toluene	0.874	U	4.85	0.874	ug/Kg			10/12/21 18:19	1
trans-1,3-Dichloropropene	0.505	U	4.85	0.505	ug/Kg			10/12/21 18:19	1
1,1,2-Trichloroethane	0.485	U	4.85	0.485	ug/Kg			10/12/21 18:19	1
Tetrachloroethene	0.718	U	4.85	0.718	ug/Kg			10/12/21 18:19	1
1,3-Dichloropropene, Total	0.505	U	4.85	0.505	ug/Kg			10/12/21 18:19	1
1,2-Dibromoethane	0.291	U	4.85	0.291	ug/Kg			10/12/21 18:19	1
Monochlorobenzene	0.291	U	4.85	0.291	ug/Kg			10/12/21 18:19	1
Ethylbenzene	0.437	U	4.85	0.437	ug/Kg			10/12/21 18:19	1
Xylenes, Total	0.485	U	9.71	0.485	ug/Kg			10/12/21 18:19	1
Styrene	0.291	U	4.85	0.291	ug/Kg			10/12/21 18:19	1
Tribromomethane	0.495	U	4.85	0.495	ug/Kg			10/12/21 18:19	1
1,1,2,2-Tetrachloroethane	0.369	U	4.85	0.369	ug/Kg			10/12/21 18:19	1
1,4-Dichlorobenzene	0.311	U	4.85	0.311	ug/Kg			10/12/21 18:19	1
1,2-Dichlorobenzene	0.243	U	4.85	0.243	ug/Kg			10/12/21 18:19	1
1,2,4-Trichlorobenzene	0.942	U	4.85	0.942	ug/Kg			10/12/21 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*65 - 152*		*10/12/21 18:19*	*1*
Toluene-d8 (Surr)	*96*		*65 - 139*		*10/12/21 18:19*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 136*		*10/12/21 18:19*	*1*
4-Bromofluorobenzene (Surr)	*95*		*61 - 142*		*10/12/21 18:19*	*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		10/20/21 08:00	10/26/21 05:15	1

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell17-23-S-3-4-211006

Date Collected: 10/06/21 12:41
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-7

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*86*		*30 - 164*	*10/20/21 08:00*	*10/26/21 05:15*	*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		10/13/21 07:18	10/13/21 21:27	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		10/13/21 07:18	10/13/21 21:27	1

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell17-23-S-3-4-211006

Date Collected: 10/06/21 12:41
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-7

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/13/21 07:18	10/13/21 21:27	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/13/21 07:18	10/13/21 21:27	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/13/21 07:18	10/13/21 21:27	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*	*10/13/21 07:18*	*10/13/21 21:27*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*30 - 115*	*10/13/21 07:18*	*10/13/21 21:27*	*1*
2-Fluorophenol	*84*		*25 - 121*	*10/13/21 07:18*	*10/13/21 21:27*	*1*
2,4,6-Tribromophenol	*73*		*19 - 122*	*10/13/21 07:18*	*10/13/21 21:27*	*1*
Nitrobenzene-d5	*79*		*23 - 129*	*10/13/21 07:18*	*10/13/21 21:27*	*1*
Phenol-d5 (Surr)	*83*		*24 - 113*	*10/13/21 07:18*	*10/13/21 21:27*	*1*
p-Terphenyl-d14 (Surr)	*86*		*18 - 137*	*10/13/21 07:18*	*10/13/21 21:27*	*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		10/14/21 12:07	10/15/21 14:04	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		10/14/21 12:07	10/15/21 14:04	1
Oil Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		10/14/21 12:07	10/15/21 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*109*		*65 - 130*	*10/14/21 12:07*	*10/15/21 14:04*	*1*
1-Chlorooctane	*101*		*65 - 130*	*10/14/21 12:07*	*10/15/21 14:04*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	3.00	0.254	ug/Kg		10/12/21 08:39	10/18/21 20:38	1
Aldrin	0.362	U	3.00	0.362	ug/Kg		10/12/21 08:39	10/18/21 20:38	1
Hexachlorocyclohexane, alpha-	0.679	U	3.00	0.679	ug/Kg		10/12/21 08:39	10/18/21 20:38	1
Hexachlorocyclohexane, beta-	0.473	U	3.00	0.473	ug/Kg		10/12/21 08:39	10/18/21 20:38	1
Chlordane (technical)	23.9	U	82.9	23.9	ug/Kg		10/12/21 08:39	10/18/21 20:38	1
Hexachlorocyclohexane, delta-	0.832	U	3.00	0.832	ug/Kg		10/12/21 08:39	10/18/21 20:38	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/12/21 08:39	10/18/21 20:38	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/12/21 08:39	10/18/21 20:38	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/12/21 08:39	10/18/21 20:38	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/12/21 08:39	10/18/21 20:38	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/12/21 08:39	10/18/21 20:38	1
Endrin aldehyde	0.247	U	3.00	0.247	ug/Kg		10/12/21 08:39	10/18/21 20:38	1
Hexachlorocyclohexane, gamma-	0.438	U	3.00	0.438	ug/Kg		10/12/21 08:39	10/18/21 20:38	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/12/21 08:39	10/18/21 20:38	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/12/21 08:39	10/18/21 20:38	1
Toxaphene	11.3	U	82.9	11.3	ug/Kg		10/12/21 08:39	10/18/21 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*35 - 135*	*10/12/21 08:39*	*10/18/21 20:38*	*1*

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell17-23-S-3-4-211006

Date Collected: 10/06/21 12:41
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-7

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	86		25 - 143	10/12/21 08:39	10/18/21 20:38	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	0.0935	0.0212	mg/Kg		10/14/21 18:05	10/16/21 03:41	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0402	U	0.187	0.0402	mg/Kg		10/14/21 18:05	10/16/21 03:41	1
2,4,6-Trinitrotoluene	0.0287	U	0.0935	0.0287	mg/Kg		10/14/21 18:05	10/16/21 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	103		83 - 122	10/14/21 18:05	10/16/21 03:41	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**814**		9.86	3.49	mg/Kg		10/21/21 18:53	10/22/21 02:47	1
Nitrate as N	**17.3**		0.986	0.107	mg/Kg		10/21/21 18:53	10/22/21 02:47	1
Fluoride	**5.86**		4.93	0.986	mg/Kg		10/21/21 18:53	10/22/21 02:47	1
Nitrite as N	**0.0817**	**J**	0.986	0.0493	mg/Kg		10/21/21 18:53	10/22/21 02:47	1
Nitrate Nitrite as N	**17.4**	**b**	0.986	0.00493	mg/Kg		10/21/21 18:53	10/22/21 02:47	1
Sulfate	**127**		9.86	4.26	mg/Kg		10/21/21 18:53	10/22/21 02:47	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.504**		0.469	0.0773	ug/Kg		10/11/21 13:18	10/12/21 15:45	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		10/13/21 10:29	10/15/21 11:56	1
Perfluorohexanesulfonic acid (PFHxS)	0.264	U	0.753	0.264	ug/Kg		10/13/21 10:29	10/15/21 11:56	1
Perfluorooctanesulfonic acid (PFOS)	0.132	U	0.753	0.132	ug/Kg		10/13/21 10:29	10/15/21 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	100		57 - 153	10/13/21 10:29	10/15/21 11:56	1
13C8 PFOS	100		70 - 130	10/13/21 10:29	10/15/21 11:56	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		10/12/21 11:40	10/13/21 21:56	10
Arsenic	**3.18**	**J**	3.45	0.532	mg/Kg		10/12/21 11:40	10/13/21 21:56	10
Barium	**283**		3.45	0.299	mg/Kg		10/12/21 11:40	10/13/21 21:56	10
Beryllium	0.160	U	1.72	0.160	mg/Kg		10/12/21 11:40	10/13/21 21:56	10
Cadmium	0.100	U	1.72	0.100	mg/Kg		10/12/21 11:40	10/13/21 21:56	10
Chromium	**2.31**	**J**	3.45	0.234	mg/Kg		10/12/21 11:40	10/13/21 21:56	10
Copper	**1.44**	**J**	3.45	0.225	mg/Kg		10/12/21 11:40	10/13/21 21:56	10
Iron	**2070**		17.2	2.02	mg/Kg		10/12/21 11:40	10/13/21 21:56	10
Manganese	**21.6**	**b**	1.72	0.219	mg/Kg		10/12/21 11:40	10/13/21 21:56	10
Lead	**1.23**	**J**	1.72	0.167	mg/Kg		10/12/21 11:40	10/13/21 21:56	10
Antimony	**0.123**	**J**	1.72	0.103	mg/Kg		10/12/21 11:40	10/13/21 21:56	10
Selenium	0.428	U	1.72	0.428	mg/Kg		10/12/21 11:40	10/13/21 21:56	10
Thallium	0.206	U	1.72	0.206	mg/Kg		10/12/21 11:40	10/13/21 21:56	10
Uranium	**0.441**	**J**	0.862	0.0515	mg/Kg		10/12/21 11:40	10/13/21 21:56	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-23-S-3-4-211006 Lab Sample ID: 860-13347-7
Date Collected: 10/06/21 12:41 **Matrix: Solid**
Date Received: 10/08/21 10:21

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**14.2**	**b**	3.45	0.382	mg/Kg		10/12/21 11:40	10/14/21 18:32	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00981**	**J**	0.0189	0.00363	mg/Kg		10/12/21 13:15	10/12/21 17:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.8	U	60.1	29.8	ug/Kg		10/19/21 13:27	10/19/21 16:16	1
Phenols, Total	0.0597	U	0.0994	0.0597	mg/Kg		10/21/21 08:30	10/22/21 11:36	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.1**	**H**			SU			10/14/21 14:34	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**718**		10.0	10.0	mg/L			10/21/21 15:00	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	**1.09**		0.165	0.200	1.00	0.107	pCi/g	10/13/21 10:30	11/08/21 09:36	1
Radium-228	0.0456	U	0.146	0.147		0.273	pCi/g	10/13/21 10:30	11/08/21 09:36	1
Combined Radium 226 + 228	**1.14**		0.220	0.248		0.273	pCi/g	10/13/21 10:30	11/08/21 09:36	1

Client Sample ID: Cell17-23-S-3-4-211006 Lab Sample ID: 860-13347-7
Date Collected: 10/06/21 12:41 **Matrix: Solid**
Date Received: 10/08/21 10:21 **Percent Solids: 87.2**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00286	U	0.00573	0.00286	mg/Kg	☼	10/11/21 11:34	10/19/21 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*	*10/11/21 11:34*	*10/19/21 14:42*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00453	U	0.0191	0.00453	mg/Kg	☼	10/12/21 08:39	10/13/21 18:32	1
Aroclor 1221	0.00453	U	0.0191	0.00453	mg/Kg	☼	10/12/21 08:39	10/13/21 18:32	1
Aroclor 1232	0.00453	U	0.0191	0.00453	mg/Kg	☼	10/12/21 08:39	10/13/21 18:32	1
Aroclor 1242	0.00453	U	0.0191	0.00453	mg/Kg	☼	10/12/21 08:39	10/13/21 18:32	1
Aroclor 1248	0.00453	U	0.0191	0.00453	mg/Kg	☼	10/12/21 08:39	10/13/21 18:32	1
Aroclor 1254	0.00299	U	0.0191	0.00299	mg/Kg	☼	10/12/21 08:39	10/13/21 18:32	1
Aroclor 1260	0.00299	U	0.0191	0.00299	mg/Kg	☼	10/12/21 08:39	10/13/21 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*35 - 140*	*10/12/21 08:39*	*10/13/21 18:32*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*37 - 142*	*10/12/21 08:39*	*10/13/21 18:32*	*1*

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Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell17-136-S-3-4-211006

Date Collected: 10/06/21 13:31
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-8

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.670	U	4.59	0.670	ug/Kg			10/12/21 18:45	1
Chloromethane	1.10	U	4.59	1.10	ug/Kg			10/12/21 18:45	1
Vinyl chloride	0.550	U	4.59	0.550	ug/Kg			10/12/21 18:45	1
Bromomethane	1.01	U	4.59	1.01	ug/Kg			10/12/21 18:45	1
Trichlorofluoromethane	0.459	U	4.59	0.459	ug/Kg			10/12/21 18:45	1
Acrolein	7.89	U	45.9	7.89	ug/Kg			10/12/21 18:45	1
1,1-Dichloroethene	0.459	U	4.59	0.459	ug/Kg			10/12/21 18:45	1
trans-1,2-Dichloroethene	0.459	U	4.59	0.459	ug/Kg			10/12/21 18:45	1
Methyl tert-butyl ether	0.560	U	4.59	0.560	ug/Kg			10/12/21 18:45	1
1,3-Dichlorobenzene	0.284	U	4.59	0.284	ug/Kg			10/12/21 18:45	1
Methylene Chloride	4.59	U	22.9	4.59	ug/Kg			10/12/21 18:45	1
Acrylonitrile	3.30	U	45.9	3.30	ug/Kg			10/12/21 18:45	1
cis-1,2-Dichloroethene	0.523	U	4.59	0.523	ug/Kg			10/12/21 18:45	1
Carbon tetrachloride	0.468	U	4.59	0.468	ug/Kg			10/12/21 18:45	1
Benzene	0.578	U	4.59	0.578	ug/Kg			10/12/21 18:45	1
1,2-Dichloroethane	0.477	U	4.59	0.477	ug/Kg			10/12/21 18:45	1
Trichloroethene	0.257	U	4.59	0.257	ug/Kg			10/12/21 18:45	1
1,1,1-Trichloroethane	0.459	U	4.59	0.459	ug/Kg			10/12/21 18:45	1
1,1-Dichloroethane	0.541	U	4.59	0.541	ug/Kg			10/12/21 18:45	1
1,2-Dichloropropane	0.459	U	4.59	0.459	ug/Kg			10/12/21 18:45	1
1,4-Dioxane	17.4	U	91.7	17.4	ug/Kg			10/12/21 18:45	1
Chloroform	0.798	U	4.59	0.798	ug/Kg			10/12/21 18:45	1
Bromodichloromethane	0.183	U	4.59	0.183	ug/Kg			10/12/21 18:45	1
1,1-Dichloropropene	0.477	U	4.59	0.477	ug/Kg			10/12/21 18:45	1
cis-1,3-Dichloropropene	0.413	U	4.59	0.413	ug/Kg			10/12/21 18:45	1
Toluene	0.826	U	4.59	0.826	ug/Kg			10/12/21 18:45	1
trans-1,3-Dichloropropene	0.477	U	4.59	0.477	ug/Kg			10/12/21 18:45	1
1,1,2-Trichloroethane	0.459	U	4.59	0.459	ug/Kg			10/12/21 18:45	1
Tetrachloroethene	0.679	U	4.59	0.679	ug/Kg			10/12/21 18:45	1
1,3-Dichloropropene, Total	0.477	U	4.59	0.477	ug/Kg			10/12/21 18:45	1
1,2-Dibromoethane	0.275	U	4.59	0.275	ug/Kg			10/12/21 18:45	1
Monochlorobenzene	0.275	U	4.59	0.275	ug/Kg			10/12/21 18:45	1
Ethylbenzene	0.413	U	4.59	0.413	ug/Kg			10/12/21 18:45	1
Xylenes, Total	0.459	U	9.17	0.459	ug/Kg			10/12/21 18:45	1
Styrene	0.275	U	4.59	0.275	ug/Kg			10/12/21 18:45	1
Tribromomethane	0.468	U	4.59	0.468	ug/Kg			10/12/21 18:45	1
1,1,2,2-Tetrachloroethane	0.349	U	4.59	0.349	ug/Kg			10/12/21 18:45	1
1,4-Dichlorobenzene	0.294	U	4.59	0.294	ug/Kg			10/12/21 18:45	1
1,2-Dichlorobenzene	0.229	U	4.59	0.229	ug/Kg			10/12/21 18:45	1
1,2,4-Trichlorobenzene	0.890	U	4.59	0.890	ug/Kg			10/12/21 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 152*		*10/12/21 18:45*	*1*
Toluene-d8 (Surr)	*98*		*65 - 139*		*10/12/21 18:45*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 136*		*10/12/21 18:45*	*1*
4-Bromofluorobenzene (Surr)	*97*		*61 - 142*		*10/12/21 18:45*	*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		10/20/21 08:00	10/26/21 05:42	1

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Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell17-136-S-3-4-211006

Date Collected: 10/06/21 13:31
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-8

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*95*		*30 - 164*	*10/20/21 08:00*	*10/26/21 05:42*	*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	167	17.4	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		10/13/21 07:18	10/13/21 21:47	1

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell17-136-S-3-4-211006

Date Collected: 10/06/21 13:31
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-8

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/13/21 07:18	10/13/21 21:47	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/13/21 07:18	10/13/21 21:47	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/13/21 07:18	10/13/21 21:47	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*	*10/13/21 07:18*	*10/13/21 21:47*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*30 - 115*	*10/13/21 07:18*	*10/13/21 21:47*	*1*
2-Fluorophenol	*82*		*25 - 121*	*10/13/21 07:18*	*10/13/21 21:47*	*1*
2,4,6-Tribromophenol	*73*		*19 - 122*	*10/13/21 07:18*	*10/13/21 21:47*	*1*
Nitrobenzene-d5	*83*		*23 - 129*	*10/13/21 07:18*	*10/13/21 21:47*	*1*
Phenol-d5 (Surr)	*80*		*24 - 113*	*10/13/21 07:18*	*10/13/21 21:47*	*1*
p-Terphenyl-d14 (Surr)	*83*		*18 - 137*	*10/13/21 07:18*	*10/13/21 21:47*	*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		10/14/21 12:07	10/15/21 03:52	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		10/14/21 12:07	10/15/21 03:52	1
Oil Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		10/14/21 12:07	10/15/21 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*112*		*65 - 130*	*10/14/21 12:07*	*10/15/21 03:52*	*1*
1-Chlorooctane	*103*		*65 - 130*	*10/14/21 12:07*	*10/15/21 03:52*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	3.00	0.254	ug/Kg		10/12/21 08:39	10/18/21 20:52	1
Aldrin	0.362	U	3.00	0.362	ug/Kg		10/12/21 08:39	10/18/21 20:52	1
Hexachlorocyclohexane, alpha-	0.679	U	3.00	0.679	ug/Kg		10/12/21 08:39	10/18/21 20:52	1
Hexachlorocyclohexane, beta-	0.473	U	3.00	0.473	ug/Kg		10/12/21 08:39	10/18/21 20:52	1
Chlordane (technical)	23.9	U	82.9	23.9	ug/Kg		10/12/21 08:39	10/18/21 20:52	1
Hexachlorocyclohexane, delta-	0.832	U	3.00	0.832	ug/Kg		10/12/21 08:39	10/18/21 20:52	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/12/21 08:39	10/18/21 20:52	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/12/21 08:39	10/18/21 20:52	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/12/21 08:39	10/18/21 20:52	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/12/21 08:39	10/18/21 20:52	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/12/21 08:39	10/18/21 20:52	1
Endrin aldehyde	0.247	U	3.00	0.247	ug/Kg		10/12/21 08:39	10/18/21 20:52	1
Hexachlorocyclohexane, gamma-	0.438	U	3.00	0.438	ug/Kg		10/12/21 08:39	10/18/21 20:52	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/12/21 08:39	10/18/21 20:52	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/12/21 08:39	10/18/21 20:52	1
Toxaphene	11.3	U	82.9	11.3	ug/Kg		10/12/21 08:39	10/18/21 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*35 - 135*	*10/12/21 08:39*	*10/18/21 20:52*	*1*

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell17-136-S-3-4-211006

Date Collected: 10/06/21 13:31
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-8

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	91		25 - 143	10/12/21 08:39	10/18/21 20:52	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	0.0942	0.0214	mg/Kg		10/14/21 18:05	10/16/21 04:04	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0405	U	0.188	0.0405	mg/Kg		10/14/21 18:05	10/16/21 04:04	1
2,4,6-Trinitrotoluene	0.0289	U	0.0942	0.0289	mg/Kg		10/14/21 18:05	10/16/21 04:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	103		83 - 122	10/14/21 18:05	10/16/21 04:04	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.78**	**J**	9.84	3.48	mg/Kg		10/21/21 18:53	10/22/21 02:57	1
Nitrate as N	**16.6**		0.984	0.106	mg/Kg		10/21/21 18:53	10/22/21 02:57	1
Fluoride	**4.38**	**J**	4.92	0.984	mg/Kg		10/21/21 18:53	10/22/21 02:57	1
Nitrite as N	**0.474**	**J**	0.984	0.0492	mg/Kg		10/21/21 18:53	10/22/21 02:57	1
Nitrate Nitrite as N	**17.1**	**b**	0.984	0.00492	mg/Kg		10/21/21 18:53	10/22/21 02:57	1
Sulfate	**72.1**		9.84	4.25	mg/Kg		10/21/21 18:53	10/22/21 02:57	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.0843**	**J**	0.478	0.0787	ug/Kg		10/11/21 13:18	10/12/21 16:06	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.214	U	0.744	0.214	ug/Kg		10/13/21 10:29	10/15/21 12:04	1
Perfluorohexanesulfonic acid (PFHxS)	0.260	U	0.744	0.260	ug/Kg		10/13/21 10:29	10/15/21 12:04	1
Perfluorooctanesulfonic acid (PFOS)	0.130	U	0.744	0.130	ug/Kg		10/13/21 10:29	10/15/21 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	102		57 - 153	10/13/21 10:29	10/15/21 12:04	1
13C8 PFOS	105		70 - 130	10/13/21 10:29	10/15/21 12:04	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		10/12/21 11:40	10/13/21 21:59	10
Arsenic	**2.40**	**J**	3.70	0.571	mg/Kg		10/12/21 11:40	10/13/21 21:59	10
Barium	**302**		3.70	0.321	mg/Kg		10/12/21 11:40	10/13/21 21:59	10
Beryllium	0.171	U	1.85	0.171	mg/Kg		10/12/21 11:40	10/13/21 21:59	10
Cadmium	0.107	U	1.85	0.107	mg/Kg		10/12/21 11:40	10/13/21 21:59	10
Chromium	**1.84**	**J**	3.70	0.251	mg/Kg		10/12/21 11:40	10/13/21 21:59	10
Copper	**1.57**	**J**	3.70	0.242	mg/Kg		10/12/21 11:40	10/13/21 21:59	10
Iron	**1480**		18.5	2.17	mg/Kg		10/12/21 11:40	10/13/21 21:59	10
Manganese	**19.5**	**b**	1.85	0.236	mg/Kg		10/12/21 11:40	10/13/21 21:59	10
Lead	**1.18**	**J**	1.85	0.179	mg/Kg		10/12/21 11:40	10/13/21 21:59	10
Antimony	0.110	U	1.85	0.110	mg/Kg		10/12/21 11:40	10/13/21 21:59	10
Selenium	0.459	U	1.85	0.459	mg/Kg		10/12/21 11:40	10/13/21 21:59	10
Thallium	0.221	U	1.85	0.221	mg/Kg		10/12/21 11:40	10/13/21 21:59	10
Uranium	**0.341**	**J**	0.926	0.0554	mg/Kg		10/12/21 11:40	10/13/21 21:59	10

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell17-136-S-3-4-211006

Lab Sample ID: 860-13347-8
Matrix: Solid
Date Collected: 10/06/21 13:31
Date Received: 10/08/21 10:21

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	14.3	b	3.70	0.410	mg/Kg		10/12/21 11:40	10/14/21 18:35	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00827	J	0.0192	0.00370	mg/Kg		10/12/21 13:15	10/12/21 17:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.8	U	60.1	29.8	ug/Kg		10/19/21 13:27	10/19/21 16:17	1
Phenols, Total	0.0592	U	0.0987	0.0592	mg/Kg		10/21/21 08:30	10/22/21 11:38	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.8	H			SU			10/14/21 14:34	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	344		10.0	10.0	mg/L			10/21/21 15:00	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	0.995		0.202	0.226	1.00	0.124	pCi/g	10/13/21 10:30	11/08/21 09:41	1
Radium-228	0.111	U	0.242	0.243		0.343	pCi/g	10/13/21 10:30	11/08/21 09:41	1
Combined Radium 226 + 228	1.11		0.315	0.332		0.343	pCi/g	10/13/21 10:30	11/08/21 09:41	1

Client Sample ID: Cell17-136-S-3-4-211006

Lab Sample ID: 860-13347-8
Matrix: Solid
Date Collected: 10/06/21 13:31
Date Received: 10/08/21 10:21
Percent Solids: 76.6

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00323	U	0.00646	0.00323	mg/Kg	☼	10/11/21 11:34	10/19/21 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*	*10/11/21 11:34*	*10/19/21 14:59*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00515	U	0.0217	0.00515	mg/Kg	☼	10/12/21 08:39	10/13/21 18:42	1
Aroclor 1221	0.00515	U	0.0217	0.00515	mg/Kg	☼	10/12/21 08:39	10/13/21 18:42	1
Aroclor 1232	0.00515	U	0.0217	0.00515	mg/Kg	☼	10/12/21 08:39	10/13/21 18:42	1
Aroclor 1242	0.00515	U	0.0217	0.00515	mg/Kg	☼	10/12/21 08:39	10/13/21 18:42	1
Aroclor 1248	0.00515	U	0.0217	0.00515	mg/Kg	☼	10/12/21 08:39	10/13/21 18:42	1
Aroclor 1254	0.00340	U	0.0217	0.00340	mg/Kg	☼	10/12/21 08:39	10/13/21 18:42	1
Aroclor 1260	0.00340	U	0.0217	0.00340	mg/Kg	☼	10/12/21 08:39	10/13/21 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*35 - 140*	*10/12/21 08:39*	*10/13/21 18:42*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*37 - 142*	*10/12/21 08:39*	*10/13/21 18:42*	*1*

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell17-119-S-3-4-211006

Date Collected: 10/06/21 13:07
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-9

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.638	U	4.37	0.638	ug/Kg			10/12/21 19:11	1
Chloromethane	1.05	U	4.37	1.05	ug/Kg			10/12/21 19:11	1
Vinyl chloride	0.524	U	4.37	0.524	ug/Kg			10/12/21 19:11	1
Bromomethane	0.962	U	4.37	0.962	ug/Kg			10/12/21 19:11	1
Trichlorofluoromethane	0.437	U	4.37	0.437	ug/Kg			10/12/21 19:11	1
Acrolein	7.52	U	43.7	7.52	ug/Kg			10/12/21 19:11	1
1,1-Dichloroethene	0.437	U	4.37	0.437	ug/Kg			10/12/21 19:11	1
trans-1,2-Dichloroethene	0.437	U	4.37	0.437	ug/Kg			10/12/21 19:11	1
Methyl tert-butyl ether	0.533	U	4.37	0.533	ug/Kg			10/12/21 19:11	1
1,3-Dichlorobenzene	0.271	U	4.37	0.271	ug/Kg			10/12/21 19:11	1
Methylene Chloride	4.37	U	21.9	4.37	ug/Kg			10/12/21 19:11	1
Acrylonitrile	3.15	U	43.7	3.15	ug/Kg			10/12/21 19:11	1
cis-1,2-Dichloroethene	0.498	U	4.37	0.498	ug/Kg			10/12/21 19:11	1
Carbon tetrachloride	0.446	U	4.37	0.446	ug/Kg			10/12/21 19:11	1
Benzene	0.551	U	4.37	0.551	ug/Kg			10/12/21 19:11	1
1,2-Dichloroethane	0.455	U	4.37	0.455	ug/Kg			10/12/21 19:11	1
Trichloroethene	0.245	U	4.37	0.245	ug/Kg			10/12/21 19:11	1
1,1,1-Trichloroethane	0.437	U	4.37	0.437	ug/Kg			10/12/21 19:11	1
1,1-Dichloroethane	0.516	U	4.37	0.516	ug/Kg			10/12/21 19:11	1
1,2-Dichloropropane	0.437	U	4.37	0.437	ug/Kg			10/12/21 19:11	1
1,4-Dioxane	16.6	U	87.4	16.6	ug/Kg			10/12/21 19:11	1
Chloroform	0.760	U	4.37	0.760	ug/Kg			10/12/21 19:11	1
Bromodichloromethane	0.175	U	4.37	0.175	ug/Kg			10/12/21 19:11	1
1,1-Dichloropropene	0.455	U	4.37	0.455	ug/Kg			10/12/21 19:11	1
cis-1,3-Dichloropropene	0.393	U	4.37	0.393	ug/Kg			10/12/21 19:11	1
Toluene	0.787	U	4.37	0.787	ug/Kg			10/12/21 19:11	1
trans-1,3-Dichloropropene	0.455	U	4.37	0.455	ug/Kg			10/12/21 19:11	1
1,1,2-Trichloroethane	0.437	U	4.37	0.437	ug/Kg			10/12/21 19:11	1
Tetrachloroethene	0.647	U	4.37	0.647	ug/Kg			10/12/21 19:11	1
1,3-Dichloropropene, Total	0.455	U	4.37	0.455	ug/Kg			10/12/21 19:11	1
1,2-Dibromoethane	0.262	U	4.37	0.262	ug/Kg			10/12/21 19:11	1
Monochlorobenzene	0.262	U	4.37	0.262	ug/Kg			10/12/21 19:11	1
Ethylbenzene	0.393	U	4.37	0.393	ug/Kg			10/12/21 19:11	1
Xylenes, Total	0.437	U	8.74	0.437	ug/Kg			10/12/21 19:11	1
Styrene	0.262	U	4.37	0.262	ug/Kg			10/12/21 19:11	1
Tribromomethane	0.446	U	4.37	0.446	ug/Kg			10/12/21 19:11	1
1,1,2,2-Tetrachloroethane	0.332	U	4.37	0.332	ug/Kg			10/12/21 19:11	1
1,4-Dichlorobenzene	0.280	U	4.37	0.280	ug/Kg			10/12/21 19:11	1
1,2-Dichlorobenzene	0.219	U	4.37	0.219	ug/Kg			10/12/21 19:11	1
1,2,4-Trichlorobenzene	0.848	U	4.37	0.848	ug/Kg			10/12/21 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 152*		*10/12/21 19:11*	*1*
Toluene-d8 (Surr)	*98*		*65 - 139*		*10/12/21 19:11*	*1*
Dibromofluoromethane (Surr)	*103*		*50 - 136*		*10/12/21 19:11*	*1*
4-Bromofluorobenzene (Surr)	*94*		*61 - 142*		*10/12/21 19:11*	*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		10/20/21 08:00	10/26/21 06:08	1

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell17-119-S-3-4-211006

Date Collected: 10/06/21 13:07
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-9

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*89*		*30 - 164*	*10/20/21 08:00*	*10/26/21 06:08*	*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		10/13/21 07:18	10/13/21 22:08	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
bis (2-chloroisopropyl) ether	17.7	U	166	17.7	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
2,6-Dinitrotoluene	23.2	U	166	23.2	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Anthracene	13.8	U	166	13.8	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Chrysene	16.5	U	166	16.5	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Dimethyl phthalate	15.8	U	166	15.8	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Fluorene	13.8	U	166	13.8	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Hexachloroethane	17.2	U	166	17.2	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Isophorone	14.5	U	166	14.5	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Pyrene	14.6	U	166	14.6	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Naphthalene	15.6	U	166	15.6	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		10/13/21 07:18	10/13/21 22:08	1

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell17-119-S-3-4-211006

Date Collected: 10/06/21 13:07
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-9

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	18.5	U	166	18.5	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		10/13/21 07:18	10/13/21 22:08	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/13/21 07:18	10/13/21 22:08	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	333	332	ug/Kg		10/13/21 07:18	10/13/21 22:08	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*	*10/13/21 07:18*	*10/13/21 22:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*30 - 115*	*10/13/21 07:18*	*10/13/21 22:08*	*1*
2-Fluorophenol	*83*		*25 - 121*	*10/13/21 07:18*	*10/13/21 22:08*	*1*
2,4,6-Tribromophenol	*73*		*19 - 122*	*10/13/21 07:18*	*10/13/21 22:08*	*1*
Nitrobenzene-d5	*83*		*23 - 129*	*10/13/21 07:18*	*10/13/21 22:08*	*1*
Phenol-d5 (Surr)	*80*		*24 - 113*	*10/13/21 07:18*	*10/13/21 22:08*	*1*
p-Terphenyl-d14 (Surr)	*84*		*18 - 137*	*10/13/21 07:18*	*10/13/21 22:08*	*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	50.3	21.2	mg/Kg		10/14/21 12:07	10/15/21 04:11	1
Diesel Range Organics (Over C10-C28)	21.2	U	50.3	21.2	mg/Kg		10/14/21 12:07	10/15/21 04:11	1
Oil Range Organics (Over C28-C36)	21.2	U	50.3	21.2	mg/Kg		10/14/21 12:07	10/15/21 04:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*107*		*65 - 130*	*10/14/21 12:07*	*10/15/21 04:11*	*1*
1-Chlorooctane	*98*		*65 - 130*	*10/14/21 12:07*	*10/15/21 04:11*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	3.00	0.254	ug/Kg		10/12/21 08:39	10/18/21 21:06	1
Aldrin	0.363	U	3.00	0.363	ug/Kg		10/12/21 08:39	10/18/21 21:06	1
Hexachlorocyclohexane, alpha-	0.680	U	3.00	0.680	ug/Kg		10/12/21 08:39	10/18/21 21:06	1
Hexachlorocyclohexane, beta-	0.473	U	3.00	0.473	ug/Kg		10/12/21 08:39	10/18/21 21:06	1
Chlordane (technical)	23.9	U	82.9	23.9	ug/Kg		10/12/21 08:39	10/18/21 21:06	1
Hexachlorocyclohexane, delta-	0.833	U	3.00	0.833	ug/Kg		10/12/21 08:39	10/18/21 21:06	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/12/21 08:39	10/18/21 21:06	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/12/21 08:39	10/18/21 21:06	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/12/21 08:39	10/18/21 21:06	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/12/21 08:39	10/18/21 21:06	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/12/21 08:39	10/18/21 21:06	1
Endrin aldehyde	0.247	U	3.00	0.247	ug/Kg		10/12/21 08:39	10/18/21 21:06	1
Hexachlorocyclohexane, gamma-	0.438	U	3.00	0.438	ug/Kg		10/12/21 08:39	10/18/21 21:06	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/12/21 08:39	10/18/21 21:06	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/12/21 08:39	10/18/21 21:06	1
Toxaphene	11.3	U	82.9	11.3	ug/Kg		10/12/21 08:39	10/18/21 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*35 - 135*	*10/12/21 08:39*	*10/18/21 21:06*	*1*

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell17-119-S-3-4-211006

Date Collected: 10/06/21 13:07
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-9

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	88		25 - 143	10/12/21 08:39	10/18/21 21:06	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	0.0207	U	0.0913	0.0207	mg/Kg		10/14/21 18:05	10/16/21 04:26	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0393	U	0.183	0.0393	mg/Kg		10/14/21 18:05	10/16/21 04:26	1
2,4,6-Trinitrotoluene	0.0280	U	0.0913	0.0280	mg/Kg		10/14/21 18:05	10/16/21 04:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	10/14/21 18:05	10/16/21 04:26	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**282**		10.1	3.58	mg/Kg		10/21/21 18:53	10/22/21 03:08	1
Nitrate as N	**32.5**		1.01	0.109	mg/Kg		10/21/21 18:53	10/22/21 03:08	1
Fluoride	**4.81**	**J**	5.06	1.01	mg/Kg		10/21/21 18:53	10/22/21 03:08	1
Nitrite as N	**0.391**	**J**	1.01	0.0506	mg/Kg		10/21/21 18:53	10/22/21 03:08	1
Nitrate Nitrite as N	**32.9**	**b**	1.01	0.00506	mg/Kg		10/21/21 18:53	10/22/21 03:08	1
Sulfate	**86.3**		10.1	4.37	mg/Kg		10/21/21 18:53	10/22/21 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	**0.114**	**J**	0.474	0.0781	ug/Kg		10/11/21 13:18	10/12/21 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	0.794	0.228	ug/Kg		10/13/21 10:29	10/15/21 12:13	1
Perfluorohexanesulfonic acid (PFHxS)	0.278	U	0.794	0.278	ug/Kg		10/13/21 10:29	10/15/21 12:13	1
Perfluorooctanesulfonic acid (PFOS)	0.139	U	0.794	0.139	ug/Kg		10/13/21 10:29	10/15/21 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	98		57 - 153	10/13/21 10:29	10/15/21 12:13	1
13C8 PFOS	97		70 - 130	10/13/21 10:29	10/15/21 12:13	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		10/12/21 11:40	10/13/21 22:02	10
Arsenic	**3.53**	**J**	3.77	0.582	mg/Kg		10/12/21 11:40	10/13/21 22:02	10
Barium	**206**		3.77	0.327	mg/Kg		10/12/21 11:40	10/13/21 22:02	10
Beryllium	0.175	U	1.89	0.175	mg/Kg		10/12/21 11:40	10/13/21 22:02	10
Cadmium	0.109	U	1.89	0.109	mg/Kg		10/12/21 11:40	10/13/21 22:02	10
Chromium	**1.28**	**J**	3.77	0.256	mg/Kg		10/12/21 11:40	10/13/21 22:02	10
Copper	**1.16**	**J**	3.77	0.246	mg/Kg		10/12/21 11:40	10/13/21 22:02	10
Iron	**1010**		18.9	2.21	mg/Kg		10/12/21 11:40	10/13/21 22:02	10
Manganese	**14.8**	**b**	1.89	0.240	mg/Kg		10/12/21 11:40	10/13/21 22:02	10
Lead	**0.966**	**J**	1.89	0.183	mg/Kg		10/12/21 11:40	10/13/21 22:02	10
Antimony	0.112	U	1.89	0.112	mg/Kg		10/12/21 11:40	10/13/21 22:02	10
Selenium	0.468	U	1.89	0.468	mg/Kg		10/12/21 11:40	10/13/21 22:02	10
Thallium	0.225	U	1.89	0.225	mg/Kg		10/12/21 11:40	10/13/21 22:02	10
Uranium	**0.364**	**J**	0.943	0.0564	mg/Kg		10/12/21 11:40	10/13/21 22:02	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-119-S-3-4-211006 Lab Sample ID: 860-13347-9
Date Collected: 10/06/21 13:07 **Matrix: Solid**
Date Received: 10/08/21 10:21

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**7.91**	**b**	3.77	0.418	mg/Kg		10/12/21 11:40	10/14/21 18:38	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00588**	**J**	0.0196	0.00377	mg/Kg		10/12/21 13:15	10/12/21 17:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.9	U	60.2	29.9	ug/Kg		10/19/21 13:27	10/19/21 16:18	1
Phenols, Total	0.0600	U	0.0999	0.0600	mg/Kg		10/21/21 08:30	10/22/21 11:41	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.4**				SU			10/12/21 13:07	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**436**		10.0	10.0	mg/L			10/21/21 15:00	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	**1.01**		0.165	0.196	1.00	0.119	pCi/g	10/13/21 10:30	11/08/21 09:37	1
Radium-228	0.0942	U	0.215	0.215		0.247	pCi/g	10/13/21 10:30	11/08/21 09:37	1
Combined Radium 226 + 228	**1.10**		0.271	0.291		0.247	pCi/g	10/13/21 10:30	11/08/21 09:37	1

Client Sample ID: Cell17-119-S-3-4-211006 Lab Sample ID: 860-13347-9
Date Collected: 10/06/21 13:07 **Matrix: Solid**
Date Received: 10/08/21 10:21 **Percent Solids: 86.5**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00288	U	0.00577	0.00288	mg/Kg	☼	10/11/21 11:34	10/19/21 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*63 - 144*	*10/11/21 11:34*	*10/19/21 15:15*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00457	U	0.0193	0.00457	mg/Kg	☼	10/12/21 08:39	10/13/21 18:51	1
Aroclor 1221	0.00457	U	0.0193	0.00457	mg/Kg	☼	10/12/21 08:39	10/13/21 18:51	1
Aroclor 1232	0.00457	U	0.0193	0.00457	mg/Kg	☼	10/12/21 08:39	10/13/21 18:51	1
Aroclor 1242	0.00457	U	0.0193	0.00457	mg/Kg	☼	10/12/21 08:39	10/13/21 18:51	1
Aroclor 1248	0.00457	U	0.0193	0.00457	mg/Kg	☼	10/12/21 08:39	10/13/21 18:51	1
Aroclor 1254	0.00301	U	0.0193	0.00301	mg/Kg	☼	10/12/21 08:39	10/13/21 18:51	1
Aroclor 1260	0.00301	U	0.0193	0.00301	mg/Kg	☼	10/12/21 08:39	10/13/21 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*35 - 140*	*10/12/21 08:39*	*10/13/21 18:51*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*37 - 142*	*10/12/21 08:39*	*10/13/21 18:51*	*1*

Eurofins Xenco

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell25-190-S-3-4-211006

Date Collected: 10/06/21 14:13
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-10

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.646	U	4.42	0.646	ug/Kg			10/12/21 19:36	1
Chloromethane	1.06	U	4.42	1.06	ug/Kg			10/12/21 19:36	1
Vinyl chloride	0.531	U	4.42	0.531	ug/Kg			10/12/21 19:36	1
Bromomethane	0.973	U	4.42	0.973	ug/Kg			10/12/21 19:36	1
Trichlorofluoromethane	0.442	U	4.42	0.442	ug/Kg			10/12/21 19:36	1
Acrolein	7.61	U	44.2	7.61	ug/Kg			10/12/21 19:36	1
1,1-Dichloroethene	0.442	U	4.42	0.442	ug/Kg			10/12/21 19:36	1
trans-1,2-Dichloroethene	0.442	U	4.42	0.442	ug/Kg			10/12/21 19:36	1
Methyl tert-butyl ether	0.540	U	4.42	0.540	ug/Kg			10/12/21 19:36	1
1,3-Dichlorobenzene	0.274	U	4.42	0.274	ug/Kg			10/12/21 19:36	1
Methylene Chloride	4.42	U	22.1	4.42	ug/Kg			10/12/21 19:36	1
Acrylonitrile	3.19	U	44.2	3.19	ug/Kg			10/12/21 19:36	1
cis-1,2-Dichloroethene	0.504	U	4.42	0.504	ug/Kg			10/12/21 19:36	1
Carbon tetrachloride	0.451	U	4.42	0.451	ug/Kg			10/12/21 19:36	1
Benzene	0.558	U	4.42	0.558	ug/Kg			10/12/21 19:36	1
1,2-Dichloroethane	0.460	U	4.42	0.460	ug/Kg			10/12/21 19:36	1
Trichloroethene	0.248	U	4.42	0.248	ug/Kg			10/12/21 19:36	1
1,1,1-Trichloroethane	0.442	U	4.42	0.442	ug/Kg			10/12/21 19:36	1
1,1-Dichloroethane	0.522	U	4.42	0.522	ug/Kg			10/12/21 19:36	1
1,2-Dichloropropane	0.442	U	4.42	0.442	ug/Kg			10/12/21 19:36	1
1,4-Dioxane	16.8	U	88.5	16.8	ug/Kg			10/12/21 19:36	1
Chloroform	0.770	U	4.42	0.770	ug/Kg			10/12/21 19:36	1
Bromodichloromethane	0.177	U	4.42	0.177	ug/Kg			10/12/21 19:36	1
1,1-Dichloropropene	0.460	U	4.42	0.460	ug/Kg			10/12/21 19:36	1
cis-1,3-Dichloropropene	0.398	U	4.42	0.398	ug/Kg			10/12/21 19:36	1
Toluene	0.796	U	4.42	0.796	ug/Kg			10/12/21 19:36	1
trans-1,3-Dichloropropene	0.460	U	4.42	0.460	ug/Kg			10/12/21 19:36	1
1,1,2-Trichloroethane	0.442	U	4.42	0.442	ug/Kg			10/12/21 19:36	1
Tetrachloroethene	0.655	U	4.42	0.655	ug/Kg			10/12/21 19:36	1
1,3-Dichloropropene, Total	0.460	U	4.42	0.460	ug/Kg			10/12/21 19:36	1
1,2-Dibromoethane	0.265	U	4.42	0.265	ug/Kg			10/12/21 19:36	1
Monochlorobenzene	0.265	U	4.42	0.265	ug/Kg			10/12/21 19:36	1
Ethylbenzene	0.398	U	4.42	0.398	ug/Kg			10/12/21 19:36	1
Xylenes, Total	0.442	U	8.85	0.442	ug/Kg			10/12/21 19:36	1
Styrene	0.265	U	4.42	0.265	ug/Kg			10/12/21 19:36	1
Tribromomethane	0.451	U	4.42	0.451	ug/Kg			10/12/21 19:36	1
1,1,2,2-Tetrachloroethane	0.336	U	4.42	0.336	ug/Kg			10/12/21 19:36	1
1,4-Dichlorobenzene	0.283	U	4.42	0.283	ug/Kg			10/12/21 19:36	1
1,2-Dichlorobenzene	0.221	U	4.42	0.221	ug/Kg			10/12/21 19:36	1
1,2,4-Trichlorobenzene	0.858	U	4.42	0.858	ug/Kg			10/12/21 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 152*		*10/12/21 19:36*	*1*
Toluene-d8 (Surr)	*98*		*65 - 139*		*10/12/21 19:36*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 136*		*10/12/21 19:36*	*1*
4-Bromofluorobenzene (Surr)	*97*		*61 - 142*		*10/12/21 19:36*	*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		10/20/21 08:00	10/26/21 06:35	1

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell25-190-S-3-4-211006

Date Collected: 10/06/21 14:13
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-10

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*90*		*30 - 164*	*10/20/21 08:00*	*10/26/21 06:35*	*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		10/13/21 07:18	10/13/21 22:28	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		10/13/21 07:18	10/13/21 22:28	1

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell25-190-S-3-4-211006

Date Collected: 10/06/21 14:13
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-10

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/13/21 07:18	10/13/21 22:28	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/13/21 07:18	10/13/21 22:28	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/13/21 07:18	10/13/21 22:28	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*	*10/13/21 07:18*	*10/13/21 22:28*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*30 - 115*	*10/13/21 07:18*	*10/13/21 22:28*	*1*
2-Fluorophenol	*86*		*25 - 121*	*10/13/21 07:18*	*10/13/21 22:28*	*1*
2,4,6-Tribromophenol	*75*		*19 - 122*	*10/13/21 07:18*	*10/13/21 22:28*	*1*
Nitrobenzene-d5	*85*		*23 - 129*	*10/13/21 07:18*	*10/13/21 22:28*	*1*
Phenol-d5 (Surr)	*86*		*24 - 113*	*10/13/21 07:18*	*10/13/21 22:28*	*1*
p-Terphenyl-d14 (Surr)	*83*		*18 - 137*	*10/13/21 07:18*	*10/13/21 22:28*	*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	21.0	U	49.8	21.0	mg/Kg		10/14/21 12:07	10/15/21 04:29	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		10/14/21 12:07	10/15/21 04:29	1
Oil Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		10/14/21 12:07	10/15/21 04:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*108*		*65 - 130*	*10/14/21 12:07*	*10/15/21 04:29*	*1*
1-Chlorooctane	*101*		*65 - 130*	*10/14/21 12:07*	*10/15/21 04:29*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	**0.446**	**J**	3.00	0.254	ug/Kg		10/12/21 08:39	10/18/21 21:20	1
Aldrin	0.362	U	3.00	0.362	ug/Kg		10/12/21 08:39	10/18/21 21:20	1
Hexachlorocyclohexane, alpha-	0.679	U	3.00	0.679	ug/Kg		10/12/21 08:39	10/18/21 21:20	1
Hexachlorocyclohexane, beta-	0.473	U	3.00	0.473	ug/Kg		10/12/21 08:39	10/18/21 21:20	1
Chlordane (technical)	23.9	U	82.9	23.9	ug/Kg		10/12/21 08:39	10/18/21 21:20	1
Hexachlorocyclohexane, delta-	0.832	U	3.00	0.832	ug/Kg		10/12/21 08:39	10/18/21 21:20	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/12/21 08:39	10/18/21 21:20	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/12/21 08:39	10/18/21 21:20	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/12/21 08:39	10/18/21 21:20	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/12/21 08:39	10/18/21 21:20	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/12/21 08:39	10/18/21 21:20	1
Endrin aldehyde	0.247	U	3.00	0.247	ug/Kg		10/12/21 08:39	10/18/21 21:20	1
Hexachlorocyclohexane, gamma-	0.438	U	3.00	0.438	ug/Kg		10/12/21 08:39	10/18/21 21:20	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/12/21 08:39	10/18/21 21:20	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/12/21 08:39	10/18/21 21:20	1
Toxaphene	11.3	U	82.9	11.3	ug/Kg		10/12/21 08:39	10/18/21 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*35 - 135*	*10/12/21 08:39*	*10/18/21 21:20*	*1*

Client Sample Results

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

Job ID: 860-13347-1

Client Sample ID: Cell25-190-S-3-4-211006

Date Collected: 10/06/21 14:13
Date Received: 10/08/21 10:21

Lab Sample ID: 860-13347-10

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	86		25 - 143	10/12/21 08:39	10/18/21 21:20	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	0.0207	U	0.0912	0.0207	mg/Kg		10/14/21 18:05	10/16/21 04:49	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0392	U	0.182	0.0392	mg/Kg		10/14/21 18:05	10/16/21 04:49	1
2,4,6-Trinitrotoluene	0.0280	U	0.0912	0.0280	mg/Kg		10/14/21 18:05	10/16/21 04:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	103		83 - 122	10/14/21 18:05	10/16/21 04:49	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.77**	**J**	10.1	3.58	mg/Kg		10/21/21 18:53	10/22/21 03:19	1
Nitrate as N	**3.19**		1.01	0.109	mg/Kg		10/21/21 18:53	10/22/21 03:19	1
Fluoride	**3.11**	**J**	5.05	1.01	mg/Kg		10/21/21 18:53	10/22/21 03:19	1
Nitrite as N	**0.444**	**J**	1.01	0.0505	mg/Kg		10/21/21 18:53	10/22/21 03:19	1
Nitrate Nitrite as N	**3.64**	**b**	1.01	0.00505	mg/Kg		10/21/21 18:53	10/22/21 03:19	1
Sulfate	**25.6**		10.1	4.36	mg/Kg		10/21/21 18:53	10/22/21 03:19	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0788	U	0.478	0.0788	ug/Kg		10/11/21 13:18	10/12/21 16:16	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.222	U	0.774	0.222	ug/Kg		10/13/21 10:29	10/15/21 12:22	1
Perfluorohexanesulfonic acid (PFHxS)	0.271	U	0.774	0.271	ug/Kg		10/13/21 10:29	10/15/21 12:22	1
Perfluorooctanesulfonic acid (PFOS)	0.135	U	0.774	0.135	ug/Kg		10/13/21 10:29	10/15/21 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	100		57 - 153	10/13/21 10:29	10/15/21 12:22	1
13C8 PFOS	101		70 - 130	10/13/21 10:29	10/15/21 12:22	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		10/12/21 11:40	10/13/21 22:05	10
Arsenic	**2.55**	**J**	3.64	0.561	mg/Kg		10/12/21 11:40	10/13/21 22:05	10
Barium	**415**		3.64	0.315	mg/Kg		10/12/21 11:40	10/13/21 22:05	10
Beryllium	0.168	U	1.82	0.168	mg/Kg		10/12/21 11:40	10/13/21 22:05	10
Cadmium	**0.106**	**J**	1.82	0.105	mg/Kg		10/12/21 11:40	10/13/21 22:05	10
Chromium	**2.80**	**J**	3.64	0.247	mg/Kg		10/12/21 11:40	10/13/21 22:05	10
Copper	**2.18**	**J**	3.64	0.237	mg/Kg		10/12/21 11:40	10/13/21 22:05	10
Iron	**2480**		18.2	2.13	mg/Kg		10/12/21 11:40	10/13/21 22:05	10
Manganese	**36.5**	**b**	1.82	0.231	mg/Kg		10/12/21 11:40	10/13/21 22:05	10
Lead	**1.90**		1.82	0.176	mg/Kg		10/12/21 11:40	10/13/21 22:05	10
Antimony	0.108	U	1.82	0.108	mg/Kg		10/12/21 11:40	10/13/21 22:05	10
Selenium	0.451	U	1.82	0.451	mg/Kg		10/12/21 11:40	10/13/21 22:05	10
Thallium	0.217	U	1.82	0.217	mg/Kg		10/12/21 11:40	10/13/21 22:05	10
Uranium	**0.392**	**J**	0.909	0.0543	mg/Kg		10/12/21 11:40	10/13/21 22:05	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-190-S-3-4-211006 Lab Sample ID: 860-13347-10
Date Collected: 10/06/21 14:13 **Matrix: Solid**
Date Received: 10/08/21 10:21

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**12.0**	**b**	3.64	0.402	mg/Kg		10/12/21 11:40	10/14/21 18:41	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00736**	**J**	0.0189	0.00363	mg/Kg		10/12/21 13:15	10/12/21 17:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.8	U	60.2	29.8	ug/Kg		10/19/21 13:27	10/19/21 16:20	1
Phenols, Total	0.0593	U	0.0988	0.0593	mg/Kg		10/21/21 08:30	10/22/21 11:44	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.8**	**H**			SU			10/14/21 14:34	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**617**		10.0	10.0	mg/L			10/21/21 15:00	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	**0.380**		0.137	0.143	1.00	0.136	pCi/g	10/13/21 10:30	11/08/21 09:02	1
Radium-228	0.0875	U	0.222	0.222		0.284	pCi/g	10/13/21 10:30	11/08/21 09:02	1
Combined Radium 226 + 228	**0.468**		0.261	0.264		0.284	pCi/g	10/13/21 10:30	11/08/21 09:02	1

Client Sample ID: Cell25-190-S-3-4-211006 Lab Sample ID: 860-13347-10
Date Collected: 10/06/21 14:13 **Matrix: Solid**
Date Received: 10/08/21 10:21 **Percent Solids: 95.2**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00260	U	0.00521	0.00260	mg/Kg	☼	10/11/21 11:34	10/19/21 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*63 - 144*	*10/11/21 11:34*	*10/19/21 15:32*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00415	U	0.0175	0.00415	mg/Kg	☼	10/12/21 08:39	10/13/21 19:01	1
Aroclor 1221	0.00415	U	0.0175	0.00415	mg/Kg	☼	10/12/21 08:39	10/13/21 19:01	1
Aroclor 1232	0.00415	U	0.0175	0.00415	mg/Kg	☼	10/12/21 08:39	10/13/21 19:01	1
Aroclor 1242	0.00415	U	0.0175	0.00415	mg/Kg	☼	10/12/21 08:39	10/13/21 19:01	1
Aroclor 1248	0.00415	U	0.0175	0.00415	mg/Kg	☼	10/12/21 08:39	10/13/21 19:01	1
Aroclor 1254	0.00273	U	0.0175	0.00273	mg/Kg	☼	10/12/21 08:39	10/13/21 19:01	1
Aroclor 1260	0.00273	U	0.0175	0.00273	mg/Kg	☼	10/12/21 08:39	10/13/21 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*35 - 140*	*10/12/21 08:39*	*10/13/21 19:01*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*37 - 142*	*10/12/21 08:39*	*10/13/21 19:01*	*1*

Surrogate Summary

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

Job ID: 860-13347-1

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)
860-13347-1	Cell19-114-S-3-4-211006	103	99	103	96
860-13347-2	Cell18-45-S-3-4-211006	100	98	103	96
860-13347-3	Cell18-8-S-3-4-211006	102	99	104	96
860-13347-4	Cell18-162-S-3-4-211006	112	96	105	96
860-13347-5	Cell18-76-S-3-4-211006	103	98	103	96
860-13347-6	Cell17-127-S-3-4-211006	104	97	103	95
860-13347-7	Cell17-23-S-3-4-211006	110	96	105	95
860-13347-8	Cell17-136-S-3-4-211006	106	98	103	97
860-13347-9	Cell17-119-S-3-4-211006	102	98	103	94
860-13347-10	Cell25-190-S-3-4-211006	103	98	102	97
LCS 560-189770/3	Lab Control Sample	98	101	102	100
MB 560-189770/8	Method Blank	101	100	102	96

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)
860-13347-1	Cell19-114-S-3-4-211006	107
860-13347-2	Cell18-45-S-3-4-211006	92
860-13347-3	Cell18-8-S-3-4-211006	102
860-13347-4	Cell18-162-S-3-4-211006	99
860-13347-5	Cell18-76-S-3-4-211006	95
860-13347-6	Cell17-127-S-3-4-211006	95
860-13347-7	Cell17-23-S-3-4-211006	96
860-13347-8	Cell17-136-S-3-4-211006	97
860-13347-9	Cell17-119-S-3-4-211006	94
860-13347-10	Cell25-190-S-3-4-211006	93
LCS 860-27086/3	Lab Control Sample	97
LCSD 860-27086/4	Lab Control Sample Dup	99
MB 860-27086/9	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)
860-13347-1	Cell19-114-S-3-4-211006	92
860-13347-2	Cell18-45-S-3-4-211006	99
860-13347-3	Cell18-8-S-3-4-211006	89

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
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)						
860-13347-4	Cell18-162-S-3-4-211006	98						
860-13347-5	Cell18-76-S-3-4-211006	100						
860-13347-6	Cell17-127-S-3-4-211006	94						
860-13347-7	Cell17-23-S-3-4-211006	86						
860-13347-8	Cell17-136-S-3-4-211006	95						
860-13347-9	Cell17-119-S-3-4-211006	89						
860-13347-10	Cell25-190-S-3-4-211006	90						
LCS 400-552164/2-A	Lab Control Sample	109						
MB 400-552164/1-A	Method Blank	122						

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)	
860-13347-1	Cell19-114-S-3-4-211006	75	81	68	79	76	74	
860-13347-2	Cell18-45-S-3-4-211006	78	80	69	79	76	78	
860-13347-3	Cell18-8-S-3-4-211006	77	82	72	81	78	78	
860-13347-4	Cell18-162-S-3-4-211006	77	84	72	80	81	79	
860-13347-5	Cell18-76-S-3-4-211006	79	82	71	80	78	79	
860-13347-6	Cell17-127-S-3-4-211006	87	89	80	87	85	87	
860-13347-7	Cell17-23-S-3-4-211006	79	84	73	79	83	86	
860-13347-8	Cell17-136-S-3-4-211006	75	82	73	83	80	83	
860-13347-9	Cell17-119-S-3-4-211006	84	83	73	83	80	84	
860-13347-10	Cell25-190-S-3-4-211006	80	86	75	85	86	83	
LCS 860-26116/2-A	Lab Control Sample	77	85	73	78	79	79	
LCSD 860-26116/3-A	Lab Control Sample Dup	83	80	76	79	75	81	
MB 860-26116/1-A	Method Blank	80	77	76	82	78	84	

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)						
		OTPH1	1CO1					
Lab Sample ID	Client Sample ID	(65-130)	(65-130)					
860-13347-1 - RA	Cell19-114-S-3-4-211006	111	102					
860-13347-1 MS - RA	Cell19-114-S-3-4-211006	102	122					
860-13347-1 MSD - RA	Cell19-114-S-3-4-211006	98	117					
860-13347-2 - RA	Cell18-45-S-3-4-211006	114	106					
860-13347-3 - RA	Cell18-8-S-3-4-211006	116	106					

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
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	OTPH1 (65-130)	1CO1 (65-130)
860-13347-4 - RA	Cell18-162-S-3-4-211006	112	103
860-13347-5 - RA	Cell18-76-S-3-4-211006	110	102
860-13347-6 - RA	Cell17-127-S-3-4-211006	113	104
860-13347-7 - RA	Cell17-23-S-3-4-211006	109	101
860-13347-8	Cell17-136-S-3-4-211006	112	103
860-13347-9	Cell17-119-S-3-4-211006	107	98
860-13347-10	Cell25-190-S-3-4-211006	108	101
LCS 860-26584/2-A - RA	Lab Control Sample	101	120
LCSD 860-26584/3-A - RA	Lab Control Sample Dup	99	118
MB 860-26584/1-A - RA	Method Blank	124	115

Surrogate Legend

OTPH = o-Terphenyl (Surr)
1CO = 1-Chlorooctane

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)
860-13347-1	Cell19-114-S-3-4-211006	60	83
860-13347-2	Cell18-45-S-3-4-211006	65	90
860-13347-3	Cell18-8-S-3-4-211006	61	71
860-13347-4	Cell18-162-S-3-4-211006	97	112
860-13347-4 MS	Cell18-162-S-3-4-211006	97	106
860-13347-4 MSD	Cell18-162-S-3-4-211006	106	115
860-13347-5	Cell18-76-S-3-4-211006	70	85
860-13347-6	Cell17-127-S-3-4-211006	72	84
860-13347-7	Cell17-23-S-3-4-211006	70	86
860-13347-8	Cell17-136-S-3-4-211006	68	91
860-13347-9	Cell17-119-S-3-4-211006	68	88
860-13347-10	Cell25-190-S-3-4-211006	66	86
LCS 860-26133/2-A	Lab Control Sample	75	94
LCS 860-27227/2-A	Lab Control Sample	104	117
LCSD 860-26133/3-A	Lab Control Sample Dup	71	91
LCSD 860-27227/3-A	Lab Control Sample Dup	105	119
MB 860-26133/1-A	Method Blank	85	103
MB 860-27227/1-A	Method Blank	104	121

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)
860-13347-1	Cell19-114-S-3-4-211006	67	85
860-13347-2	Cell18-45-S-3-4-211006	78	95

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
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)
860-13347-3	Cell18-8-S-3-4-211006	67	89
860-13347-4	Cell18-162-S-3-4-211006	71	91
860-13347-5	Cell18-76-S-3-4-211006	70	89
860-13347-6	Cell17-127-S-3-4-211006	70	96
860-13347-7	Cell17-23-S-3-4-211006	65	88
860-13347-8	Cell17-136-S-3-4-211006	66	92
860-13347-9	Cell17-119-S-3-4-211006	62	93
860-13347-10	Cell25-190-S-3-4-211006	63	97
LCS 860-26133/4-A	Lab Control Sample	72	62
LCSD 860-26133/5-A	Lab Control Sample Dup	76	64
MB 860-26133/1-A	Method Blank	78	65

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)
860-13347-1	Cell19-114-S-3-4-211006	103
860-13347-2	Cell18-45-S-3-4-211006	106
860-13347-3	Cell18-8-S-3-4-211006	103
860-13347-4	Cell18-162-S-3-4-211006	104
860-13347-5	Cell18-76-S-3-4-211006	106
860-13347-6	Cell17-127-S-3-4-211006	104
860-13347-7	Cell17-23-S-3-4-211006	103
860-13347-8	Cell17-136-S-3-4-211006	103
860-13347-9	Cell17-119-S-3-4-211006	105
860-13347-10	Cell25-190-S-3-4-211006	103
LCS 280-553608/2-A	Lab Control Sample	106
MB 280-553608/1-A	Method Blank	103

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)
860-13347-1	Cell19-114-S-3-4-211006	101	100
860-13347-2	Cell18-45-S-3-4-211006	99	102
860-13347-3	Cell18-8-S-3-4-211006	102	98
860-13347-4	Cell18-162-S-3-4-211006	101	99
860-13347-5	Cell18-76-S-3-4-211006	103	105
860-13347-6	Cell17-127-S-3-4-211006	101	101
860-13347-7	Cell17-23-S-3-4-211006	100	100
860-13347-8	Cell17-136-S-3-4-211006	102	105

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
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)								
860-13347-9	Cell17-119-S-3-4-211006	98	97								
860-13347-10	Cell25-190-S-3-4-211006	100	101								
DLCK 280-539536/13	Lab Control Sample	106	100								
LCS 280-553234/2-A	Lab Control Sample	103	100								
MB 280-553234/1-A	Method Blank	103	103								

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: 860-13347-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-189770/8
Matrix: Solid
Analysis Batch: 189770

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			10/12/21 12:24	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			10/12/21 12:24	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			10/12/21 12:24	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			10/12/21 12:24	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			10/12/21 12:24	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			10/12/21 12:24	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			10/12/21 12:24	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			10/12/21 12:24	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			10/12/21 12:24	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			10/12/21 12:24	1
Methylene Chloride	7.977	J	25.0	5.00	ug/Kg			10/12/21 12:24	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			10/12/21 12:24	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			10/12/21 12:24	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			10/12/21 12:24	1
Benzene	0.630	U	5.00	0.630	ug/Kg			10/12/21 12:24	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			10/12/21 12:24	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			10/12/21 12:24	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			10/12/21 12:24	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			10/12/21 12:24	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			10/12/21 12:24	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			10/12/21 12:24	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			10/12/21 12:24	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			10/12/21 12:24	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			10/12/21 12:24	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			10/12/21 12:24	1
Toluene	0.900	U	5.00	0.900	ug/Kg			10/12/21 12:24	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			10/12/21 12:24	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			10/12/21 12:24	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			10/12/21 12:24	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			10/12/21 12:24	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			10/12/21 12:24	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			10/12/21 12:24	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			10/12/21 12:24	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			10/12/21 12:24	1
Styrene	0.300	U	5.00	0.300	ug/Kg			10/12/21 12:24	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			10/12/21 12:24	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			10/12/21 12:24	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			10/12/21 12:24	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			10/12/21 12:24	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			10/12/21 12:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 152*		*10/12/21 12:24*	*1*
Toluene-d8 (Surr)	*100*		*65 - 139*		*10/12/21 12:24*	*1*
Dibromofluoromethane (Surr)	*102*		*50 - 136*		*10/12/21 12:24*	*1*
4-Bromofluorobenzene (Surr)	*96*		*61 - 142*		*10/12/21 12:24*	*1*

QC Sample Results

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

Job ID: 860-13347-1

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

Lab Sample ID: LCS 560-189770/3
Matrix: Solid
Analysis Batch: 189770

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	24.76		ug/Kg		62	13 - 130
Chloromethane	40.0	30.77		ug/Kg		77	61 - 137
Vinyl chloride	40.0	34.49		ug/Kg		86	65 - 139
Bromomethane	40.0	36.54		ug/Kg		91	57 - 155
Trichlorofluoromethane	40.0	35.04		ug/Kg		88	68 - 146
Acrolein	395	493.7		ug/Kg		125	20 - 150
1,1-Dichloroethene	40.0	35.40		ug/Kg		88	70 - 130
trans-1,2-Dichloroethene	40.0	35.27		ug/Kg		88	70 - 132
Methyl tert-butyl ether	40.0	36.09		ug/Kg		90	70 - 130
1,3-Dichlorobenzene	40.0	35.95		ug/Kg		90	70 - 130
Methylene Chloride	40.0	41.77		ug/Kg		104	61 - 150
Acrylonitrile	400	362.5		ug/Kg		91	66 - 137
cis-1,2-Dichloroethene	40.0	36.55		ug/Kg		91	70 - 130
Carbon tetrachloride	40.0	36.90		ug/Kg		92	70 - 136
Benzene	40.0	35.39		ug/Kg		88	70 - 131
1,2-Dichloroethane	40.0	33.17		ug/Kg		83	70 - 130
Trichloroethene	40.0	37.07		ug/Kg		93	70 - 130
1,1,1-Trichloroethane	40.0	36.85		ug/Kg		92	70 - 132
1,1-Dichloroethane	40.0	34.67		ug/Kg		87	70 - 130
1,2-Dichloropropane	40.0	35.38		ug/Kg		88	70 - 130
1,4-Dioxane	800	742.6		ug/Kg		93	10 - 150
Chloroform	40.0	34.76		ug/Kg		87	70 - 130
Bromodichloromethane	40.0	36.81		ug/Kg		92	70 - 130
1,1-Dichloropropene	40.0	36.68		ug/Kg		92	70 - 130
cis-1,3-Dichloropropene	40.0	35.87		ug/Kg		90	70 - 130
Toluene	40.0	35.37		ug/Kg		88	70 - 130
trans-1,3-Dichloropropene	40.0	38.72		ug/Kg		97	70 - 131
1,1,2-Trichloroethane	40.0	36.81		ug/Kg		92	70 - 130
Tetrachloroethene	40.0	41.67		ug/Kg		104	70 - 130
1,3-Dichloropropene, Total	80.0	74.59		ug/Kg		93	
1,2-Dibromoethane	40.0	37.12		ug/Kg		93	70 - 130
Monochlorobenzene	40.0	35.50		ug/Kg		89	70 - 130
Ethylbenzene	40.0	37.96		ug/Kg		95	70 - 130
Xylenes, Total	80.0	79.29		ug/Kg		99	70 - 130
Styrene	40.0	39.12		ug/Kg		98	70 - 130
Tribromomethane	40.0	38.40		ug/Kg		96	59 - 137
1,1,2,2-Tetrachloroethane	40.0	36.19		ug/Kg		90	70 - 130
1,4-Dichlorobenzene	40.0	34.84		ug/Kg		87	70 - 130
1,2-Dichlorobenzene	40.0	36.55		ug/Kg		91	70 - 130
1,2,4-Trichlorobenzene	40.0	40.78		ug/Kg		102	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*65 - 152*
Toluene-d8 (Surr)	*101*		*65 - 139*
Dibromofluoromethane (Surr)	*102*		*50 - 136*
4-Bromofluorobenzene (Surr)	*100*		*61 - 142*

QC Sample Results

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

Job ID: 860-13347-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-27086/9
Matrix: Solid
Analysis Batch: 27086

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			10/19/21 10:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*		*10/19/21 10:44*	*1*

Lab Sample ID: LCS 860-27086/3
Matrix: Solid
Analysis Batch: 27086

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	0.04177		mg/Kg		84	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*

Lab Sample ID: LCSD 860-27086/4
Matrix: Solid
Analysis Batch: 27086

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	0.04024		mg/Kg		80	65 - 135	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-552164/1-A
Matrix: Solid
Analysis Batch: 552737

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 552164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		10/19/21 16:25	10/23/21 13:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*122*		*30 - 164*	*10/19/21 16:25*	*10/23/21 13:04*	*1*

Lab Sample ID: LCS 400-552164/2-A
Matrix: Solid
Analysis Batch: 552998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 552164

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	322.2		ug/Kg		97	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*109*		*30 - 164*

QC Sample Results

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

Job ID: 860-13347-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-26116/1-A
Matrix: Solid
Analysis Batch: 26121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26116

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		10/12/21 07:45	10/12/21 16:46	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/12/21 07:45	10/12/21 16:46	1

QC Sample Results

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

Job ID: 860-13347-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-26116/1-A
Matrix: Solid
Analysis Batch: 26121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/12/21 07:45	10/12/21 16:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*30 - 115*	*10/12/21 07:45*	*10/12/21 16:46*	*1*
2-Fluorophenol	*77*		*25 - 121*	*10/12/21 07:45*	*10/12/21 16:46*	*1*
2,4,6-Tribromophenol	*76*		*19 - 122*	*10/12/21 07:45*	*10/12/21 16:46*	*1*
Nitrobenzene-d5	*82*		*23 - 129*	*10/12/21 07:45*	*10/12/21 16:46*	*1*
Phenol-d5 (Surr)	*78*		*24 - 113*	*10/12/21 07:45*	*10/12/21 16:46*	*1*
p-Terphenyl-d14 (Surr)	*84*		*18 - 137*	*10/12/21 07:45*	*10/12/21 16:46*	*1*

Lab Sample ID: LCS 860-26116/2-A
Matrix: Solid
Analysis Batch: 26121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26116

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	1252		ug/Kg		94	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	1060		ug/Kg		80	35 - 135
1-Methylnaphthalene	1330	1023		ug/Kg		77	38 - 127
bis (2-chloroisopropyl) ether	1330	1138		ug/Kg		85	25 - 124
2,4,5-Trichlorophenol	1330	1222		ug/Kg		92	40 - 135
2,4,6-Trichlorophenol	1330	1153		ug/Kg		86	39 - 139
2,4-Dinitrotoluene	1330	1185		ug/Kg		89	48 - 131
Dinitrophenols	1330	964.1		ug/Kg		72	19 - 131
2,4-Dichlorophenol	1330	1163		ug/Kg		87	36 - 135
2,6-Dinitrotoluene	1330	1088		ug/Kg		82	42 - 136
Dichlorobenzidine, 3,3'-	1330	1009		ug/Kg		76	35 - 134
4,6-Dinitro-2-methylphenol	1330	1144		ug/Kg		86	30 - 146
Acenaphthene	1330	1138		ug/Kg		85	37 - 131
Anthracene	1330	1126		ug/Kg		84	39 - 139
Acenaphthylene	1330	1141		ug/Kg		86	39 - 129
Benzo[a]anthracene	1330	1074		ug/Kg		81	44 - 135
Benzo[b]fluoranthene	1330	1097		ug/Kg		82	40 - 153
Benzo[k]fluoranthene	1330	1206		ug/Kg		90	33 - 156
Benzo[g,h,i]perylene	1330	1198		ug/Kg		90	40 - 153
Benzo[a]pyrene	1330	1165		ug/Kg		87	43 - 153
Di (2-ethylhexyl)phthalate	1330	1194		ug/Kg		90	46 - 145
Bis(2-chloroethyl)ether	1330	1223		ug/Kg		92	33 - 127
Chrysene	1330	1097		ug/Kg		82	42 - 135
Dibutylphthalate	1330	1129		ug/Kg		85	43 - 142
Dibenz(a,h)anthracene	1330	1233		ug/Kg		92	41 - 155
Diethyl phthalate	1330	1145		ug/Kg		86	45 - 131
Dimethyl phthalate	1330	1093		ug/Kg		82	43 - 132
Fluoranthene	1330	1120		ug/Kg		84	41 - 138
Fluorene	1330	1138		ug/Kg		85	41 - 131
Hexachlorobenzene	1330	1051		ug/Kg		79	36 - 142
Hexachlorobutadiene	1330	982.3		ug/Kg		74	35 - 129

QC Sample Results

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

Job ID: 860-13347-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-26116/2-A
Matrix: Solid
Analysis Batch: 26121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26116

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hexachlorocyclopentadiene			1330	728.2		ug/Kg		55	16 - 106		
Hexachloroethane			1330	1035		ug/Kg		78	36 - 121		
Indeno[1,2,3-cd]pyrene			1330	1213		ug/Kg		91	39 - 154		
Isophorone			1330	1071		ug/Kg		80	36 - 128		
N-Nitrosodi-n-butylamine			1330	1144		ug/Kg		86	34 - 135		
N-Nitrosodiethylamine			1330	1124		ug/Kg		84	36 - 127		
N-Nitrosodiphenylamine			1330	1157		ug/Kg		87	27 - 155		
N-Nitrosopyrrolidine			1330	1242		ug/Kg		93	38 - 136		
Pentachlorobenzene			1330	1049		ug/Kg		79	38 - 136		
Pentachlorophenol			1330	753.4		ug/Kg		57	14 - 148		
Phenanthrene			1330	1144		ug/Kg		86	37 - 139		
Pyrene			1330	1170		ug/Kg		88	42 - 138		
Naphthalene			1330	1079		ug/Kg		81	35 - 128		
2-Methylnaphthalene			1330	1064		ug/Kg		80	36 - 126		
Nitrobenzene			1330	1122		ug/Kg		84	32 - 129		
Benzidine			1330	965.8		ug/Kg		72	12 - 112		
Phenol			1.33	1.151		mg/Kg		86	34 - 127		
N-Nitrosodimethylamine			1330	1103		ug/Kg		83	27 - 126		
Atrazine			1330	1088		ug/Kg		82	18 - 134		
Thiophene, tetrahydro-, 1,1-dioxide			1330	1519		ug/Kg		114	30 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*77*		*30 - 115*
2-Fluorophenol	*85*		*25 - 121*
2,4,6-Tribromophenol	*73*		*19 - 122*
Nitrobenzene-d5	*78*		*23 - 129*
Phenol-d5 (Surr)	*79*		*24 - 113*
p-Terphenyl-d14 (Surr)	*79*		*18 - 137*

Lab Sample ID: LCSD 860-26116/3-A
Matrix: Solid
Analysis Batch: 26121

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26116

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)			1330	1318		ug/Kg		99	20 - 157	5	30
1,2,4,5-Tetrachlorobenzene			1330	1148		ug/Kg		86	35 - 135	8	30
1-Methylnaphthalene			1330	1052		ug/Kg		79	38 - 127	3	30
bis (2-chloroisopropyl) ether			1330	1091		ug/Kg		82	25 - 124	4	30
2,4,5-Trichlorophenol			1330	1254		ug/Kg		94	40 - 135	3	30
2,4,6-Trichlorophenol			1330	1189		ug/Kg		89	39 - 139	3	30
2,4-Dinitrotoluene			1330	1162		ug/Kg		87	48 - 131	2	30
Dinitrophenols			1330	1051		ug/Kg		79	19 - 131	9	40
2,4-Dichlorophenol			1330	1151		ug/Kg		86	36 - 135	1	30
2,6-Dinitrotoluene			1330	1103		ug/Kg		83	42 - 136	1	30
Dichlorobenzidine, 3,3'-			1330	1033		ug/Kg		77	35 - 134	2	40
4,6-Dinitro-2-methylphenol			1330	1218		ug/Kg		91	30 - 146	6	40
Acenaphthene			1330	1141		ug/Kg		86	37 - 131	0	30

QC Sample Results

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

Job ID: 860-13347-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-26116/3-A
Matrix: Solid
Analysis Batch: 26121

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26116

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene			1330	1199		ug/Kg		90	39 - 139	6	30
Acenaphthylene			1330	1133		ug/Kg		85	39 - 129	1	30
Benzo[a]anthracene			1330	1115		ug/Kg		84	44 - 135	4	30
Benzo[b]fluoranthene			1330	1092		ug/Kg		82	40 - 153	1	30
Benzo[k]fluoranthene			1330	1230		ug/Kg		92	33 - 156	2	30
Benzo[g,h,i]perylene			1330	1207		ug/Kg		91	40 - 153	1	30
Benzo[a]pyrene			1330	1155		ug/Kg		87	43 - 153	1	30
Di (2-ethylhexyl)phthalate			1330	1223		ug/Kg		92	46 - 145	2	30
Bis(2-chloroethyl)ether			1330	1120		ug/Kg		84	33 - 127	9	30
Chrysene			1330	1130		ug/Kg		85	42 - 135	3	30
Dibutylphthalate			1330	1163		ug/Kg		87	43 - 142	3	30
Dibenz(a,h)anthracene			1330	1224		ug/Kg		92	41 - 155	1	30
Diethyl phthalate			1330	1135		ug/Kg		85	45 - 131	1	30
Dimethyl phthalate			1330	1106		ug/Kg		83	43 - 132	1	30
Fluoranthene			1330	1127		ug/Kg		84	41 - 138	1	30
Fluorene			1330	1145		ug/Kg		86	41 - 131	1	30
Hexachlorobenzene			1330	1080		ug/Kg		81	36 - 142	3	30
Hexachlorobutadiene			1330	1007		ug/Kg		76	35 - 129	2	30
Hexachlorocyclopentadiene			1330	735.3		ug/Kg		55	16 - 106	1	30
Hexachloroethane			1330	1014		ug/Kg		76	36 - 121	2	30
Indeno[1,2,3-cd]pyrene			1330	1213		ug/Kg		91	39 - 154	0	30
Isophorone			1330	1061		ug/Kg		80	36 - 128	1	30
N-Nitrosodi-n-butylamine			1330	1141		ug/Kg		86	34 - 135	0	30
N-Nitrosodiethylamine			1330	1106		ug/Kg		83	36 - 127	2	30
N-Nitrosodiphenylamine			1330	1242		ug/Kg		93	27 - 155	7	30
N-Nitrosopyrrolidine			1330	1167		ug/Kg		88	38 - 136	6	30
Pentachlorobenzene			1330	1079		ug/Kg		81	38 - 136	3	30
Pentachlorophenol			1330	743.9		ug/Kg		56	14 - 148	1	40
Phenanthrene			1330	1166		ug/Kg		87	37 - 139	2	30
Pyrene			1330	1192		ug/Kg		89	42 - 138	2	30
Naphthalene			1330	1077		ug/Kg		81	35 - 128	0	30
2-Methylnaphthalene			1330	1077		ug/Kg		81	36 - 126	1	30
Nitrobenzene			1330	1153		ug/Kg		87	32 - 129	3	30
Benzidine			1330	968.1		ug/Kg		73	12 - 112	0	40
Phenol			1.33	1.043		mg/Kg		78	34 - 127	10	40
N-Nitrosodimethylamine			1330	1073		ug/Kg		80	27 - 126	3	30
Atrazine			1330	1137		ug/Kg		85	18 - 134	4	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	1464		ug/Kg		110	30 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*83*		*30 - 115*
2-Fluorophenol	*80*		*25 - 121*
2,4,6-Tribromophenol	*76*		*19 - 122*
Nitrobenzene-d5	*79*		*23 - 129*
Phenol-d5 (Surr)	*75*		*24 - 113*
p-Terphenyl-d14 (Surr)	*81*		*18 - 137*

QC Sample Results

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

Job ID: 860-13347-1

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

Lab Sample ID: MB 860-26584/1-A
Matrix: Solid
Analysis Batch: 26740

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA	21.1	U	50.1	21.1	mg/Kg		10/14/21 12:07	10/15/21 10:47	1
Diesel Range Organics (Over C10-C28) - RA	21.1	U	50.1	21.1	mg/Kg		10/14/21 12:07	10/15/21 10:47	1
Oil Range Organics (Over C28-C36) - RA	21.1	U	50.1	21.1	mg/Kg		10/14/21 12:07	10/15/21 10:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr) - RA	*124*		*65 - 130*	*10/14/21 12:07*	*10/15/21 10:47*	*1*
1-Chlorooctane - RA	*115*		*65 - 130*	*10/14/21 12:07*	*10/15/21 10:47*	*1*

Lab Sample ID: LCS 860-26584/2-A
Matrix: Solid
Analysis Batch: 26740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26584

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10 - RA			997	972.9		mg/Kg		98	70 - 135		
Diesel Range Organics (Over C10-C28) - RA			997	1086		mg/Kg		109	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr) - RA	*101*		*65 - 130*
1-Chlorooctane - RA	*120*		*65 - 130*

Lab Sample ID: LCSD 860-26584/3-A
Matrix: Solid
Analysis Batch: 26740

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26584

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10 - RA			997	982.7		mg/Kg		99	70 - 135	1	35
Diesel Range Organics (Over C10-C28) - RA			997	1120		mg/Kg		112	70 - 135	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl (Surr) - RA	*99*		*65 - 130*
1-Chlorooctane - RA	*118*		*65 - 130*

Lab Sample ID: 860-13347-1 MS
Matrix: Solid
Analysis Batch: 26740

Client Sample ID: Cell19-114-S-3-4-211006
Prep Type: Total/NA
Prep Batch: 26584

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10 - RA	21.3	U	999	939.6		mg/Kg		94	70 - 135		
Diesel Range Organics (Over C10-C28) - RA	21.3	U	999	1139		mg/Kg		114	70 - 135		

QC Sample Results

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

Job ID: 860-13347-1

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

Lab Sample ID: 860-13347-1 MS
Matrix: Solid
Analysis Batch: 26740

Client Sample ID: Cell19-114-S-3-4-211006
Prep Type: Total/NA
Prep Batch: 26584

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl (Surr) - RA	102		65 - 130
1-Chlorooctane - RA	122		65 - 130

Lab Sample ID: 860-13347-1 MSD
Matrix: Solid
Analysis Batch: 26740

Client Sample ID: Cell19-114-S-3-4-211006
Prep Type: Total/NA
Prep Batch: 26584

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	21.3	U	1000	1029		mg/Kg		103	70 - 135	9	35
Diesel Range Organics (Over C10-C28) - RA	21.3	U	1000	1089		mg/Kg		109	70 - 135	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl (Surr) - RA	98		65 - 130
1-Chlorooctane - RA	117		65 - 130

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-26133/1-A
Matrix: Solid
Analysis Batch: 26940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	3.00	0.254	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Aldrin	0.363	U	3.00	0.363	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Hexachlorocyclohexane, alpha-	0.680	U	3.00	0.680	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Hexachlorocyclohexane, beta-	0.474	U	3.00	0.474	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Chlordane (technical)	23.9	U	83.0	23.9	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Hexachlorocyclohexane, delta-	0.833	U	3.00	0.833	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Endrin aldehyde	0.247	U	3.00	0.247	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Hexachlorocyclohexane, gamma-	0.439	U	3.00	0.439	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Toxaphene	11.3	U	83.0	11.3	ug/Kg		10/12/21 08:39	10/18/21 16:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		35 - 135	10/12/21 08:39	10/18/21 16:15	1
DCB Decachlorobiphenyl (Surr)	103		25 - 143	10/12/21 08:39	10/18/21 16:15	1

QC Sample Results

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

Job ID: 860-13347-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 860-26133/2-A
Matrix: Solid
Analysis Batch: 26940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26133

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DDT			16.7	18.46		ug/Kg		111	13 - 192		
Aldrin			16.7	17.39		ug/Kg		104	30 - 152		
Hexachlorocyclohexane, alpha-			16.7	16.72		ug/Kg		100	29 - 160		
Hexachlorocyclohexane, beta-			16.7	15.98		ug/Kg		96	30 - 155		
Hexachlorocyclohexane, delta-			16.7	17.47		ug/Kg		105	20 - 161		
Dieldrin			16.7	17.63		ug/Kg		106	33 - 153		
Endosulfan I			16.7	17.17		ug/Kg		103	30 - 151		
Endosulfan II			16.7	17.17		ug/Kg		103	27 - 153		
Endosulfan sulfate			16.7	17.77		ug/Kg		107	15 - 170		
Endrin			16.7	18.81		ug/Kg		113	25 - 162		
Endrin aldehyde			16.7	14.28		ug/Kg		86	49 - 117		
Hexachlorocyclohexane, gamma-			16.7	17.04		ug/Kg		102	30 - 158		
Heptachlor			16.7	16.99		ug/Kg		102	29 - 163		
Heptachlor epoxide			16.7	16.86		ug/Kg		101	30 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*94*		*25 - 143*

Lab Sample ID: LCSD 860-26133/3-A
Matrix: Solid
Analysis Batch: 26940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26133

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT			16.7	17.58		ug/Kg		106	13 - 192	5	25
Aldrin			16.7	16.71		ug/Kg		100	30 - 152	4	25
Hexachlorocyclohexane, alpha-			16.7	16.08		ug/Kg		96	29 - 160	4	25
Hexachlorocyclohexane, beta-			16.7	15.51		ug/Kg		93	30 - 155	3	25
Hexachlorocyclohexane, delta-			16.7	17.02		ug/Kg		102	20 - 161	3	25
Dieldrin			16.7	17.00		ug/Kg		102	33 - 153	4	25
Endosulfan I			16.7	16.56		ug/Kg		99	30 - 151	4	25
Endosulfan II			16.7	16.74		ug/Kg		100	27 - 153	3	25
Endosulfan sulfate			16.7	17.35		ug/Kg		104	15 - 170	2	25
Endrin			16.7	18.10		ug/Kg		109	25 - 162	4	25
Endrin aldehyde			16.7	13.99		ug/Kg		84	49 - 117	2	25
Hexachlorocyclohexane, gamma-			16.7	16.37		ug/Kg		98	30 - 158	4	25
Heptachlor			16.7	16.29		ug/Kg		98	29 - 163	4	25
Heptachlor epoxide			16.7	16.30		ug/Kg		98	30 - 150	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*71*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*91*		*25 - 143*

QC Sample Results

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

Job ID: 860-13347-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-27227/1-A
Matrix: Solid
Analysis Batch: 27304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	3.00	0.254	ug/Kg		10/19/21 16:18	10/20/21 16:42	1
Aldrin	0.363	U	3.00	0.363	ug/Kg		10/19/21 16:18	10/20/21 16:42	1
Hexachlorocyclohexane, alpha-	0.680	U	3.00	0.680	ug/Kg		10/19/21 16:18	10/20/21 16:42	1
Hexachlorocyclohexane, beta-	0.474	U	3.00	0.474	ug/Kg		10/19/21 16:18	10/20/21 16:42	1
Chlordane (technical)	23.9	U	83.0	23.9	ug/Kg		10/19/21 16:18	10/20/21 16:42	1
Hexachlorocyclohexane, delta-	0.833	U	3.00	0.833	ug/Kg		10/19/21 16:18	10/20/21 16:42	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/19/21 16:18	10/20/21 16:42	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/19/21 16:18	10/20/21 16:42	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/19/21 16:18	10/20/21 16:42	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/19/21 16:18	10/20/21 16:42	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/19/21 16:18	10/20/21 16:42	1
Endrin aldehyde	0.247	U	3.00	0.247	ug/Kg		10/19/21 16:18	10/20/21 16:42	1
Hexachlorocyclohexane, gamma-	0.439	U	3.00	0.439	ug/Kg		10/19/21 16:18	10/20/21 16:42	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/19/21 16:18	10/20/21 16:42	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/19/21 16:18	10/20/21 16:42	1
Toxaphene	11.3	U	83.0	11.3	ug/Kg		10/19/21 16:18	10/20/21 16:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*104*		*35 - 135*	*10/19/21 16:18*	*10/20/21 16:42*	*1*
DCB Decachlorobiphenyl (Surr)	*121*		*25 - 143*	*10/19/21 16:18*	*10/20/21 16:42*	*1*

Lab Sample ID: LCS 860-27227/2-A
Matrix: Solid
Analysis Batch: 27304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	16.7	22.15		ug/Kg		133	13 - 192
Aldrin	16.7	19.67		ug/Kg		118	30 - 152
Hexachlorocyclohexane, alpha-	16.7	19.64		ug/Kg		118	29 - 160
Hexachlorocyclohexane, beta-	16.7	20.36		ug/Kg		122	30 - 155
Hexachlorocyclohexane, delta-	16.7	20.28		ug/Kg		122	20 - 161
Dieldrin	16.7	21.08		ug/Kg		126	33 - 153
Endosulfan I	16.7	20.49		ug/Kg		123	30 - 151
Endosulfan II	16.7	20.54		ug/Kg		123	27 - 153
Endosulfan sulfate	16.7	20.14		ug/Kg		121	15 - 170
Endrin	16.7	23.76		ug/Kg		143	25 - 162
Endrin aldehyde	16.7	19.40		ug/Kg		116	49 - 117
Hexachlorocyclohexane, gamma-	16.7	19.62		ug/Kg		118	30 - 158
Heptachlor	16.7	20.48		ug/Kg		123	29 - 163
Heptachlor epoxide	16.7	20.49		ug/Kg		123	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*104*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*117*		*25 - 143*

QC Sample Results

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

Job ID: 860-13347-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-27227/3-A
Matrix: Solid
Analysis Batch: 27304

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27227

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT			16.7	22.70		ug/Kg		136	13 - 192	2	25
Aldrin			16.7	20.19		ug/Kg		121	30 - 152	3	25
Hexachlorocyclohexane, alpha-			16.7	20.06		ug/Kg		120	29 - 160	2	25
Hexachlorocyclohexane, beta-			16.7	21.57		ug/Kg		129	30 - 155	6	25
Hexachlorocyclohexane, delta-			16.7	20.14		ug/Kg		121	20 - 161	1	25
Dieldrin			16.7	21.56		ug/Kg		129	33 - 153	2	25
Endosulfan I			16.7	21.09		ug/Kg		127	30 - 151	3	25
Endosulfan II			16.7	20.95		ug/Kg		126	27 - 153	2	25
Endosulfan sulfate			16.7	20.39		ug/Kg		122	15 - 170	1	25
Endrin			16.7	24.02		ug/Kg		144	25 - 162	1	25
Endrin aldehyde			16.7	19.95	*	ug/Kg		120	49 - 117	3	25
Hexachlorocyclohexane, gamma-			16.7	20.26		ug/Kg		122	30 - 158	3	25
Heptachlor			16.7	21.02		ug/Kg		126	29 - 163	3	25
Heptachlor epoxide			16.7	20.97		ug/Kg		126	30 - 150	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*105*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*119*		*25 - 143*

Lab Sample ID: 860-13347-4 MS
Matrix: Solid
Analysis Batch: 27304

Client Sample ID: Cell18-162-S-3-4-211006
Prep Type: Total/NA
Prep Batch: 27227

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	0.254	U	16.7	20.64		ug/Kg		124	13 - 192
Aldrin	0.363	U	16.7	18.67		ug/Kg		112	30 - 152
Hexachlorocyclohexane, alpha-	0.681	U	16.7	18.25		ug/Kg		109	29 - 160
Hexachlorocyclohexane, beta-	0.474	U	16.7	19.92		ug/Kg		119	30 - 155
Hexachlorocyclohexane, delta-	0.834	U	16.7	18.31		ug/Kg		110	20 - 161
Dieldrin	0.170	U	16.7	19.65		ug/Kg		118	33 - 153
Endosulfan I	0.202	U	16.7	19.19		ug/Kg		115	30 - 151
Endosulfan II	0.373	U	16.7	19.10		ug/Kg		115	27 - 153
Endosulfan sulfate	0.276	U	16.7	18.43		ug/Kg		111	15 - 170
Endrin	0.291	U	16.7	22.07		ug/Kg		132	25 - 162
Endrin aldehyde	0.248	U *	16.7	16.44		ug/Kg		99	49 - 117
Hexachlorocyclohexane, gamma-	0.439	U	16.7	18.66		ug/Kg		112	30 - 158
Heptachlor	0.563	U	16.7	19.36		ug/Kg		116	29 - 163
Heptachlor epoxide	0.245	U	16.7	19.10		ug/Kg		115	30 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*97*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*106*		*25 - 143*

QC Sample Results

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

Job ID: 860-13347-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 860-13347-4 MSD
Matrix: Solid
Analysis Batch: 27304

Client Sample ID: Cell18-162-S-3-4-211006
Prep Type: Total/NA
Prep Batch: 27227

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT	0.254	U	16.6	22.17		ug/Kg		133	13 - 192	7	25
Aldrin	0.363	U	16.6	20.08		ug/Kg		121	30 - 152	7	25
Hexachlorocyclohexane, alpha-	0.681	U	16.6	20.09		ug/Kg		121	29 - 160	10	25
Hexachlorocyclohexane, beta-	0.474	U	16.6	21.41		ug/Kg		129	30 - 155	7	25
Hexachlorocyclohexane, delta-	0.834	U	16.6	19.59		ug/Kg		118	20 - 161	7	25
Dieldrin	0.170	U	16.6	21.10		ug/Kg		127	33 - 153	7	25
Endosulfan I	0.202	U	16.6	20.56		ug/Kg		124	30 - 151	7	25
Endosulfan II	0.373	U	16.6	20.36		ug/Kg		122	27 - 153	6	25
Endosulfan sulfate	0.276	U	16.6	19.85		ug/Kg		119	15 - 170	7	25
Endrin	0.291	U	16.6	23.69		ug/Kg		142	25 - 162	7	25
Endrin aldehyde	0.248	U *	16.6	17.59		ug/Kg		106	49 - 117	7	25
Hexachlorocyclohexane, gamma-	0.439	U	16.6	20.20		ug/Kg		121	30 - 158	8	25
Heptachlor	0.563	U	16.6	20.99		ug/Kg		126	29 - 163	8	25
Heptachlor epoxide	0.245	U	16.6	20.61		ug/Kg		124	30 - 150	8	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*106*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*115*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-26133/1-A
Matrix: Solid
Analysis Batch: 26386

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		10/12/21 08:39	10/13/21 15:11	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		10/12/21 08:39	10/13/21 15:11	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		10/12/21 08:39	10/13/21 15:11	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		10/12/21 08:39	10/13/21 15:11	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		10/12/21 08:39	10/13/21 15:11	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		10/12/21 08:39	10/13/21 15:11	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		10/12/21 08:39	10/13/21 15:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*35 - 140*	*10/12/21 08:39*	*10/13/21 15:11*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*37 - 142*	*10/12/21 08:39*	*10/13/21 15:11*	*1*

Lab Sample ID: LCS 860-26133/4-A
Matrix: Solid
Analysis Batch: 26386

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26133

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			0.167	0.1218		mg/Kg		73	27 - 121		
Aroclor 1260			0.167	0.1032		mg/Kg		62	27 - 139		

QC Sample Results

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

Job ID: 860-13347-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-26133/4-A
Matrix: Solid
Analysis Batch: 26386

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	72		35 - 140
DCB Decachlorobiphenyl (Surr)	62		37 - 142

Lab Sample ID: LCSD 860-26133/5-A
Matrix: Solid
Analysis Batch: 26386

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26133

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1276		mg/Kg		77	27 - 121	5	20
Aroclor 1260			0.167	0.1081		mg/Kg		65	27 - 139	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	76		35 - 140
DCB Decachlorobiphenyl (Surr)	64		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-553608/1-A
Matrix: Solid
Analysis Batch: 553760

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553608

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		10/14/21 18:05	10/15/21 19:40	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		10/14/21 18:05	10/15/21 19:40	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		10/14/21 18:05	10/15/21 19:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	103		83 - 122	10/14/21 18:05	10/15/21 19:40	1

Lab Sample ID: LCS 280-553608/2-A
Matrix: Solid
Analysis Batch: 553760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553608

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	1.052		mg/Kg		105	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	1.029		mg/Kg		103	80 - 124
2,4,6-Trinitrotoluene			1.00	1.103		mg/Kg		110	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	106		83 - 122

QC Sample Results

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

Job ID: 860-13347-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-27632/53-A
Matrix: Solid
Analysis Batch: 27471

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		10/21/21 18:48	10/22/21 00:28	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		10/21/21 18:48	10/22/21 00:28	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		10/21/21 18:48	10/22/21 00:28	1
Nitrite as N	0.0500	U	1.00	0.0500	mg/Kg		10/21/21 18:48	10/22/21 00:28	1
Nitrate Nitrite as N	0.01570	J	1.00	0.00500	mg/Kg		10/21/21 18:48	10/22/21 00:28	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		10/21/21 18:48	10/22/21 00:28	1

Lab Sample ID: LCS 860-27632/54-A
Matrix: Solid
Analysis Batch: 27471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27632

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	103.7		mg/Kg		104	80 - 120
Nitrate as N	100	97.77		mg/Kg		98	80 - 120
Fluoride	100	106.1		mg/Kg		106	80 - 120
Nitrite as N	50.0	52.51		mg/Kg		105	80 - 120
Sulfate	100	98.66		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 860-27632/55-A
Matrix: Solid
Analysis Batch: 27471

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27632

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	99.71		mg/Kg		100	80 - 120	4	20
Nitrate as N	100	97.78		mg/Kg		98	80 - 120	0	20
Fluoride	100	106.0		mg/Kg		106	80 - 120	0	20
Nitrite as N	50.0	52.46		mg/Kg		105	80 - 120	0	20
Sulfate	100	98.24		mg/Kg		98	80 - 120	0	20

Lab Sample ID: 860-13347-1 MS
Matrix: Solid
Analysis Batch: 27471

Client Sample ID: Cell19-114-S-3-4-211006
Prep Type: Total/NA
Prep Batch: 27632

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	15.3		101	109.5		mg/Kg		93	80 - 120
Nitrate as N	11.0		101	110.7		mg/Kg		99	80 - 120
Fluoride	4.30	J	101	111.4		mg/Kg		106	80 - 120
Nitrite as N	0.407	J	50.4	55.35		mg/Kg		109	80 - 120
Sulfate	229		101	327.4		mg/Kg		98	80 - 120

Lab Sample ID: 860-13347-1 MSD
Matrix: Solid
Analysis Batch: 27471

Client Sample ID: Cell19-114-S-3-4-211006
Prep Type: Total/NA
Prep Batch: 27632

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	15.3		102	110.7		mg/Kg		94	80 - 120	1	20
Nitrate as N	11.0		102	111.7		mg/Kg		99	80 - 120	1	15
Fluoride	4.30	J	102	112.6		mg/Kg		107	80 - 120	1	20
Nitrite as N	0.407	J	50.8	55.94		mg/Kg		109	80 - 120	1	15

QC Sample Results

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

Job ID: 860-13347-1

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

Lab Sample ID: 860-13347-1 MSD
Matrix: Solid
Analysis Batch: 27471

Client Sample ID: Cell19-114-S-3-4-211006
Prep Type: Total/NA
Prep Batch: 27632

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	229		102	330.6		mg/Kg		100	80 - 120	1	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-552785/12
Matrix: Solid
Analysis Batch: 552785

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	0.04905	J	ug/L		98	70 - 130

Lab Sample ID: MB 280-553021/1-A
Matrix: Solid
Analysis Batch: 553306

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553021

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		10/11/21 13:18	10/12/21 13:56	1

Lab Sample ID: LCS 280-553021/2-A
Matrix: Solid
Analysis Batch: 553306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553021

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5126		ug/Kg		103	80 - 120

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-539536/13
Matrix: Solid
Analysis Batch: 539536

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	0.5103	J	ug/L		102	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4771	J	ug/L		105	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		96	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*106*		*57 - 153*
13C8 PFOS	*100*		*70 - 130*

Lab Sample ID: MB 280-553234/1-A
Matrix: Solid
Analysis Batch: 553683

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553234

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		10/13/21 10:29	10/15/21 09:09	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		10/13/21 10:29	10/15/21 09:09	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		10/13/21 10:29	10/15/21 09:09	1

QC Sample Results

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

Job ID: 860-13347-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 280-553234/1-A
Matrix: Solid
Analysis Batch: 553683

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553234

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	10/13/21 10:29	10/15/21 09:09	1
13C8 PFOS	103		70 - 130	10/13/21 10:29	10/15/21 09:09	1

Lab Sample ID: LCS 280-553234/2-A
Matrix: Solid
Analysis Batch: 553683

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	18.03		ug/Kg		90	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	16.69		ug/Kg		92	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	18.52		ug/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
13C8 PFOA	103		57 - 153
13C8 PFOS	100		70 - 130

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-26205/1-A
Matrix: Solid
Analysis Batch: 26536

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26205

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0159	U	0.200	0.0159	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Arsenic	0.0617	U	0.400	0.0617	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Barium	0.0347	U	0.400	0.0347	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Beryllium	0.0185	U	0.200	0.0185	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Cadmium	0.0116	U	0.200	0.0116	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Chromium	0.0271	U	0.400	0.0271	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Copper	0.0261	U	0.400	0.0261	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Iron	0.234	U	2.00	0.234	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Manganese	0.1230	J	0.200	0.0255	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Lead	0.0194	U	0.200	0.0194	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Antimony	0.0119	U	0.200	0.0119	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Selenium	0.0496	U	0.200	0.0496	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Thallium	0.0239	U	0.200	0.0239	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Uranium	0.00598	U	0.100	0.00598	mg/Kg		10/12/21 11:40	10/13/21 21:06	1

Lab Sample ID: MB 860-26205/1-A
Matrix: Solid
Analysis Batch: 26725

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26205

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.1843	J	0.400	0.0443	mg/Kg		10/12/21 11:40	10/14/21 17:48	1

QC Sample Results

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

Job ID: 860-13347-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-26205/2-A
Matrix: Solid
Analysis Batch: 26536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26205

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	5.00	4.613		mg/Kg		92	80 - 120
Arsenic	10.0	9.350		mg/Kg		94	80 - 120
Barium	10.0	9.577		mg/Kg		96	80 - 120
Beryllium	10.0	9.148		mg/Kg		91	80 - 120
Cadmium	10.0	9.211		mg/Kg		92	80 - 120
Chromium	10.0	9.346		mg/Kg		93	80 - 120
Copper	10.0	9.226		mg/Kg		92	80 - 120
Iron	50.0	47.34		mg/Kg		95	80 - 120
Manganese	10.0	11.34		mg/Kg		113	80 - 120
Lead	10.0	9.271		mg/Kg		93	80 - 120
Antimony	10.0	9.124		mg/Kg		91	80 - 120
Selenium	10.0	9.201		mg/Kg		92	80 - 120
Thallium	10.0	9.361		mg/Kg		94	80 - 120
Uranium	2.50	2.326		mg/Kg		93	80 - 120

Lab Sample ID: LCS 860-26205/2-A
Matrix: Solid
Analysis Batch: 26725

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26205

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	10.0	10.67		mg/Kg		107	80 - 120

Lab Sample ID: LCSD 860-26205/3-A
Matrix: Solid
Analysis Batch: 26536

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26205

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.90	4.430		mg/Kg		90	80 - 120	4	20
Arsenic	9.80	9.026		mg/Kg		92	80 - 120	4	20
Barium	9.80	9.114		mg/Kg		93	80 - 120	5	20
Beryllium	9.80	8.999		mg/Kg		92	80 - 120	2	20
Cadmium	9.80	8.868		mg/Kg		90	80 - 120	4	20
Chromium	9.80	9.079		mg/Kg		93	80 - 120	3	20
Copper	9.80	8.897		mg/Kg		91	80 - 120	4	20
Iron	49.0	46.86		mg/Kg		96	80 - 120	1	20
Manganese	9.80	9.458		mg/Kg		96	80 - 120	18	20
Lead	9.80	8.976		mg/Kg		92	80 - 120	3	20
Antimony	9.80	9.160		mg/Kg		93	80 - 120	0	20
Selenium	9.80	9.034		mg/Kg		92	80 - 120	2	20
Thallium	9.80	9.027		mg/Kg		92	80 - 120	4	20
Uranium	2.45	2.250		mg/Kg		92	80 - 120	3	20

Lab Sample ID: LCSD 860-26205/3-A
Matrix: Solid
Analysis Batch: 26725

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26205

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	9.80	9.632		mg/Kg		98	80 - 120	10	20

QC Sample Results

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

Job ID: 860-13347-1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-25969/10-A
Matrix: Solid
Analysis Batch: 26298

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25969

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00370	U	0.0192	0.00370	mg/Kg		10/12/21 13:15	10/12/21 17:27	1

Lab Sample ID: LCS 860-25969/11-A
Matrix: Solid
Analysis Batch: 26298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.182	0.1699		mg/Kg		93	80 - 120

Lab Sample ID: LCSD 860-25969/12-A
Matrix: Solid
Analysis Batch: 26298

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25969

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.185	0.1725		mg/Kg		93	80 - 120	2	20

Lab Sample ID: 860-13347-10 MS
Matrix: Solid
Analysis Batch: 26298

Client Sample ID: Cell25-190-S-3-4-211006
Prep Type: Total/NA
Prep Batch: 25969

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00736	J	0.189	0.1750		mg/Kg		89	75 - 125

Lab Sample ID: 860-13347-10 MSD
Matrix: Solid
Analysis Batch: 26298

Client Sample ID: Cell25-190-S-3-4-211006
Prep Type: Total/NA
Prep Batch: 25969

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00736	J	0.189	0.1713		mg/Kg		87	75 - 125	2	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-27194/4-A
Matrix: Solid
Analysis Batch: 27283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		10/19/21 13:27	10/19/21 15:17	1

Lab Sample ID: LCS 860-27194/5-A
Matrix: Solid
Analysis Batch: 27283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27194

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	99.21		ug/Kg		99	90 - 110

QC Sample Results

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

Job ID: 860-13347-1

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LLCS 860-27194/6-A
Matrix: Solid
Analysis Batch: 27283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27194

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			50.0	47.56		ug/Kg		95	90 - 110		

Lab Sample ID: 860-13347-4 MS
Matrix: Solid
Analysis Batch: 27283

Client Sample ID: Cell18-162-S-3-4-211006
Prep Type: Total/NA
Prep Batch: 27194

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	29.8	U	2410	2385		ug/Kg		99	90 - 110		

Lab Sample ID: 860-13347-4 MSD
Matrix: Solid
Analysis Batch: 27283

Client Sample ID: Cell18-162-S-3-4-211006
Prep Type: Total/NA
Prep Batch: 27194

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	29.8	U	2410	2502		ug/Kg		104	90 - 110	5	20

Method: 9045D - pH

Lab Sample ID: 860-13347-9 DU
Matrix: Solid
Analysis Batch: 26222

Client Sample ID: Cell17-119-S-3-4-211006
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	9.4			9.4		SU				0.5	20

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-27528/1-A
Matrix: Solid
Analysis Batch: 27788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0599	U	0.0999	0.0599	mg/Kg		10/21/21 08:30	10/22/21 10:21	1

Lab Sample ID: LCS 860-27528/2-A
Matrix: Solid
Analysis Batch: 27788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27528

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenols, Total			0.998	1.001		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 860-27528/3-A
Matrix: Solid
Analysis Batch: 27788

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27528

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total			0.996	1.013		mg/Kg		102	90 - 110	1	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9066 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: 860-13347-4 MS Client Sample ID: Cell18-162-S-3-4-211006
Matrix: Solid Prep Type: Total/NA
Analysis Batch: 27788 Prep Batch: 27528

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.0599	U	0.993	0.9630		mg/Kg		97	90 - 110

Lab Sample ID: 860-13347-4 MSD Client Sample ID: Cell18-162-S-3-4-211006
Matrix: Solid Prep Type: Total/NA
Analysis Batch: 27788 Prep Batch: 27528

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	0.0599	U	0.994	0.9921		mg/Kg		100	90 - 110	3	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-190117/1 Client Sample ID: Method Blank
Matrix: Solid Prep Type: Total/NA
Analysis Batch: 190117

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			10/21/21 15:00	1

Lab Sample ID: LCS 560-190117/2 Client Sample ID: Lab Control Sample
Matrix: Solid Prep Type: Total/NA
Analysis Batch: 190117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	2250	2092		mg/L		93	90 - 110

Lab Sample ID: 860-13347-4 DU Client Sample ID: Cell18-162-S-3-4-211006
Matrix: Solid Prep Type: 7 Day Leach
Analysis Batch: 190117

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	253		241.0		mg/L		5	20

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-531365/1-A Client Sample ID: Method Blank
Matrix: Solid Prep Type: Total/NA
Analysis Batch: 535387 Prep Batch: 531365

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.002552	U	0.159	0.159	1.00	0.279	pCi/g	10/13/21 10:30	11/08/21 09:39	1
Radium-228	-0.04508	U	0.261	0.261		0.312	pCi/g	10/13/21 10:30	11/08/21 09:39	1
Combined Radium 226 + 228	-0.04763	U	0.306	0.306		0.312	pCi/g	10/13/21 10:30	11/08/21 09:39	1

QC Sample Results

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

Job ID: 860-13347-1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: LCS 160-531365/2-A
Matrix: Solid
Analysis Batch: 535420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531365

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.3	97.71		10.3		1.22	pCi/g	101	87 - 116
Cesium-137	26.2	24.01		2.58		0.460	pCi/g	92	87 - 120
Cobalt-60	8.41	8.313		0.886		0.0791	pCi/g	99	87 - 115

Lab Sample ID: 860-13347-10 DU
Matrix: Solid
Analysis Batch: 535402

Client Sample ID: Cell25-190-S-3-4-211006
Prep Type: Total/NA
Prep Batch: 531365

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.380		0.3824		0.131	1.00	0.0877	pCi/g	0.01	1
Radium-228	0.0875	U	0.02114	U	0.303		0.370	pCi/g	0.13	1
Combined Radium 226 + 228	0.468		0.4035		0.330		0.370	pCi/g	0.11	1

QC Association Summary

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

Job ID: 860-13347-1

GC/MS VOA

Prep Batch: 26001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	5035	
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	5035	
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	5035	
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	5035	
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	5035	
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	5035	
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	5035	
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	5035	
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	5035	
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	5035	

Analysis Batch: 27086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	8260D SIM	26001
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	8260D SIM	26001
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	8260D SIM	26001
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	8260D SIM	26001
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	8260D SIM	26001
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	8260D SIM	26001
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	8260D SIM	26001
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	8260D SIM	26001
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	8260D SIM	26001
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	8260D SIM	26001
MB 860-27086/9	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-27086/3	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-27086/4	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 189770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	8260B	
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	8260B	
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	8260B	
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	8260B	
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	8260B	
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	8260B	
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	8260B	
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	8260B	
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	8260B	
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	8260B	
MB 560-189770/8	Method Blank	Total/NA	Solid	8260B	
LCS 560-189770/3	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 26116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	3550C	
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	3550C	
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	3550C	
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	3550C	
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	3550C	

QC Association Summary

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

Job ID: 860-13347-1

GC/MS Semi VOA (Continued)

Prep Batch: 26116 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	3550C	
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	3550C	
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	3550C	
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	3550C	
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	3550C	
MB 860-26116/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-26116/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-26116/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 26121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-26116/1-A	Method Blank	Total/NA	Solid	8270D	26116
LCS 860-26116/2-A	Lab Control Sample	Total/NA	Solid	8270D	26116
LCSD 860-26116/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	26116

Analysis Batch: 26332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	8270D	26116
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	8270D	26116
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	8270D	26116
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	8270D	26116
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	8270D	26116
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	8270D	26116
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	8270D	26116
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	8270D	26116
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	8270D	26116
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	8270D	26116

Prep Batch: 552164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	3546	
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	3546	
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	3546	
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	3546	
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	3546	
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	3546	
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	3546	
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	3546	
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	3546	
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	3546	
MB 400-552164/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-552164/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 552737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-552164/1-A	Method Blank	Total/NA	Solid	8270D	552164

Analysis Batch: 552998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	8270D	552164
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	8270D	552164

QC Association Summary

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

Job ID: 860-13347-1

GC/MS Semi VOA (Continued)

Analysis Batch: 552998 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	8270D	552164
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	8270D	552164
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	8270D	552164
LCS 400-552164/2-A	Lab Control Sample	Total/NA	Solid	8270D	552164

Analysis Batch: 553070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	8270D	552164
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	8270D	552164
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	8270D	552164
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	8270D	552164
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	8270D	552164

GC Semi VOA

Prep Batch: 26133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	3550C	
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	3550C	
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	3550C	
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	3550C	
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	3550C	
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	3550C	
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	3550C	
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	3550C	
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	3550C	
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	3550C	
MB 860-26133/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-26133/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-26133/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-26133/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-26133/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 26386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	8082A	26133
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	8082A	26133
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	8082A	26133
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	8082A	26133
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	8082A	26133
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	8082A	26133
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	8082A	26133
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	8082A	26133
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	8082A	26133
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	8082A	26133
MB 860-26133/1-A	Method Blank	Total/NA	Solid	8082A	26133
LCS 860-26133/4-A	Lab Control Sample	Total/NA	Solid	8082A	26133
LCSD 860-26133/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	26133

QC Association Summary

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

Job ID: 860-13347-1

GC Semi VOA

Prep Batch: 26584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1 - RA	Cell19-114-S-3-4-211006	Total/NA	Solid	8015NM Prep	
860-13347-2 - RA	Cell18-45-S-3-4-211006	Total/NA	Solid	8015NM Prep	
860-13347-3 - RA	Cell18-8-S-3-4-211006	Total/NA	Solid	8015NM Prep	
860-13347-4 - RA	Cell18-162-S-3-4-211006	Total/NA	Solid	8015NM Prep	
860-13347-5 - RA	Cell18-76-S-3-4-211006	Total/NA	Solid	8015NM Prep	
860-13347-6 - RA	Cell17-127-S-3-4-211006	Total/NA	Solid	8015NM Prep	
860-13347-7 - RA	Cell17-23-S-3-4-211006	Total/NA	Solid	8015NM Prep	
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	8015NM Prep	
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	8015NM Prep	
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	8015NM Prep	
MB 860-26584/1-A - RA	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-26584/2-A - RA	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-26584/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
860-13347-1 MS - RA	Cell19-114-S-3-4-211006	Total/NA	Solid	8015NM Prep	
860-13347-1 MSD - RA	Cell19-114-S-3-4-211006	Total/NA	Solid	8015NM Prep	

Analysis Batch: 26663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	8015B NM	26584
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	8015B NM	26584
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	8015B NM	26584

Analysis Batch: 26740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1 - RA	Cell19-114-S-3-4-211006	Total/NA	Solid	8015B NM	26584
860-13347-2 - RA	Cell18-45-S-3-4-211006	Total/NA	Solid	8015B NM	26584
860-13347-3 - RA	Cell18-8-S-3-4-211006	Total/NA	Solid	8015B NM	26584
860-13347-4 - RA	Cell18-162-S-3-4-211006	Total/NA	Solid	8015B NM	26584
860-13347-5 - RA	Cell18-76-S-3-4-211006	Total/NA	Solid	8015B NM	26584
860-13347-6 - RA	Cell17-127-S-3-4-211006	Total/NA	Solid	8015B NM	26584
860-13347-7 - RA	Cell17-23-S-3-4-211006	Total/NA	Solid	8015B NM	26584
MB 860-26584/1-A - RA	Method Blank	Total/NA	Solid	8015B NM	26584
LCS 860-26584/2-A - RA	Lab Control Sample	Total/NA	Solid	8015B NM	26584
LCSD 860-26584/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26584
860-13347-1 MS - RA	Cell19-114-S-3-4-211006	Total/NA	Solid	8015B NM	26584
860-13347-1 MSD - RA	Cell19-114-S-3-4-211006	Total/NA	Solid	8015B NM	26584

Analysis Batch: 26940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	8081B	26133
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	8081B	26133
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	8081B	26133
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	8081B	26133
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	8081B	26133
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	8081B	26133
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	8081B	26133
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	8081B	26133
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	8081B	26133
MB 860-26133/1-A	Method Blank	Total/NA	Solid	8081B	26133
LCS 860-26133/2-A	Lab Control Sample	Total/NA	Solid	8081B	26133
LCSD 860-26133/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	26133

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Prep Batch: 27227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	3550C	
MB 860-27227/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-27227/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-27227/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-13347-4 MS	Cell18-162-S-3-4-211006	Total/NA	Solid	3550C	
860-13347-4 MSD	Cell18-162-S-3-4-211006	Total/NA	Solid	3550C	

Analysis Batch: 27304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-27227/1-A	Method Blank	Total/NA	Solid	8081B	27227
LCS 860-27227/2-A	Lab Control Sample	Total/NA	Solid	8081B	27227
LCSD 860-27227/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	27227
860-13347-4 MS	Cell18-162-S-3-4-211006	Total/NA	Solid	8081B	27227
860-13347-4 MSD	Cell18-162-S-3-4-211006	Total/NA	Solid	8081B	27227

Analysis Batch: 27493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	8081B	27227

HPLC/IC

Analysis Batch: 27471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	9056A	27632
MB 860-27632/53-A	Method Blank	Total/NA	Solid	9056A	27632
LCS 860-27632/54-A	Lab Control Sample	Total/NA	Solid	9056A	27632
LCSD 860-27632/55-A	Lab Control Sample Dup	Total/NA	Solid	9056A	27632
860-13347-1 MS	Cell19-114-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-1 MSD	Cell19-114-S-3-4-211006	Total/NA	Solid	9056A	27632

Analysis Batch: 27472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	9056A	27632

QC Association Summary

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

Job ID: 860-13347-1

HPLC/IC (Continued)

Analysis Batch: 27472 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-27632/53-A	Method Blank	Total/NA	Solid	9056A	27632
LCS 860-27632/54-A	Lab Control Sample	Total/NA	Solid	9056A	27632
LCSD 860-27632/55-A	Lab Control Sample Dup	Total/NA	Solid	9056A	27632
860-13347-1 MS	Cell19-114-S-3-4-211006	Total/NA	Solid	9056A	27632
860-13347-1 MSD	Cell19-114-S-3-4-211006	Total/NA	Solid	9056A	27632

Prep Batch: 27632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	300_Prep	
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	300_Prep	
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	300_Prep	
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	300_Prep	
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	300_Prep	
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	300_Prep	
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	300_Prep	
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	300_Prep	
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	300_Prep	
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	300_Prep	
MB 860-27632/53-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-27632/54-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-27632/55-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-13347-1 MS	Cell19-114-S-3-4-211006	Total/NA	Solid	300_Prep	
860-13347-1 MSD	Cell19-114-S-3-4-211006	Total/NA	Solid	300_Prep	

ISM Prep Batch: 553176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	Increment, prep	
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	Increment, prep	
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	Increment, prep	
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	Increment, prep	
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	Increment, prep	
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	Increment, prep	
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	Increment, prep	
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	Increment, prep	
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	Increment, prep	
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	Increment, prep	

Prep Batch: 553608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	8330B	553176
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	8330B	553176
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	8330B	553176
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	8330B	553176
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	8330B	553176
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	8330B	553176
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	8330B	553176
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	8330B	553176
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	8330B	553176
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	8330B	553176
MB 280-553608/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-553608/2-A	Lab Control Sample	Total/NA	Solid	8330B	

QC Association Summary

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

Job ID: 860-13347-1

HPLC/IC

Analysis Batch: 553760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	8330B	553608
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	8330B	553608
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	8330B	553608
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	8330B	553608
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	8330B	553608
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	8330B	553608
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	8330B	553608
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	8330B	553608
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	8330B	553608
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	8330B	553608
MB 280-553608/1-A	Method Blank	Total/NA	Solid	8330B	553608
LCS 280-553608/2-A	Lab Control Sample	Total/NA	Solid	8330B	553608

LCMS

Analysis Batch: 539536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-539536/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 552785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-552785/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 553021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	6860	
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	6860	
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	6860	
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	6860	
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	6860	
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	6860	
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	6860	
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	6860	
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	6860	
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	6860	
MB 280-553021/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-553021/2-A	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 553234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	PFC leach	
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	PFC leach	
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	PFC leach	
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	PFC leach	
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	PFC leach	
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	PFC leach	
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	PFC leach	
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	PFC leach	
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	PFC leach	
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	PFC leach	
MB 280-553234/1-A	Method Blank	Total/NA	Solid	PFC leach	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

LCMS (Continued)

Prep Batch: 553234 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-553234/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 553306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	6860	553021
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	6860	553021
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	6860	553021
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	6860	553021
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	6860	553021
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	6860	553021
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	6860	553021
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	6860	553021
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	6860	553021
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	6860	553021
MB 280-553021/1-A	Method Blank	Total/NA	Solid	6860	553021
LCS 280-553021/2-A	Lab Control Sample	Total/NA	Solid	6860	553021

Analysis Batch: 553683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	DV-LC-0012	553234
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	DV-LC-0012	553234
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	DV-LC-0012	553234
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	DV-LC-0012	553234
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	DV-LC-0012	553234
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	DV-LC-0012	553234
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	DV-LC-0012	553234
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	DV-LC-0012	553234
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	DV-LC-0012	553234
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	DV-LC-0012	553234
MB 280-553234/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	553234
LCS 280-553234/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	553234

Metals

Prep Batch: 25969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	7471A	
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	7471A	
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	7471A	
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	7471A	
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	7471A	
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	7471A	
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	7471A	
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	7471A	
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	7471A	
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	7471A	
MB 860-25969/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-25969/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-25969/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-13347-10 MS	Cell25-190-S-3-4-211006	Total/NA	Solid	7471A	
860-13347-10 MSD	Cell25-190-S-3-4-211006	Total/NA	Solid	7471A	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Prep Batch: 26205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	3051A	
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	3051A	
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	3051A	
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	3051A	
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	3051A	
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	3051A	
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	3051A	
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	3051A	
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	3051A	
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	3051A	
MB 860-26205/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-26205/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-26205/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 26298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	7471A	25969
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	7471A	25969
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	7471A	25969
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	7471A	25969
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	7471A	25969
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	7471A	25969
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	7471A	25969
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	7471A	25969
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	7471A	25969
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	7471A	25969
MB 860-25969/10-A	Method Blank	Total/NA	Solid	7471A	25969
LCS 860-25969/11-A	Lab Control Sample	Total/NA	Solid	7471A	25969
LCSD 860-25969/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	25969
860-13347-10 MS	Cell25-190-S-3-4-211006	Total/NA	Solid	7471A	25969
860-13347-10 MSD	Cell25-190-S-3-4-211006	Total/NA	Solid	7471A	25969

Analysis Batch: 26536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	6020A	26205
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	6020A	26205
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	6020A	26205
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	6020A	26205
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	6020A	26205
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	6020A	26205
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	6020A	26205
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	6020A	26205
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	6020A	26205
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	6020A	26205
MB 860-26205/1-A	Method Blank	Total/NA	Solid	6020A	26205
LCS 860-26205/2-A	Lab Control Sample	Total/NA	Solid	6020A	26205
LCSD 860-26205/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	26205

Analysis Batch: 26725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	6020A	26205

QC Association Summary

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

Job ID: 860-13347-1

Metals (Continued)

Analysis Batch: 26725 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	6020A	26205
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	6020A	26205
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	6020A	26205
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	6020A	26205
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	6020A	26205
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	6020A	26205
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	6020A	26205
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	6020A	26205
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	6020A	26205
MB 860-26205/1-A	Method Blank	Total/NA	Solid	6020A	26205
LCS 860-26205/2-A	Lab Control Sample	Total/NA	Solid	6020A	26205
LCSD 860-26205/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	26205

General Chemistry

Analysis Batch: 26153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	Moisture - 2540	
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	Moisture - 2540	
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	Moisture - 2540	
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	Moisture - 2540	
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	Moisture - 2540	
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	Moisture - 2540	
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	Moisture - 2540	
MB 860-26153/1	Method Blank	Total/NA	Solid	Moisture - 2540	
860-13347-4 DU	Cell18-162-S-3-4-211006	Total/NA	Solid	Moisture - 2540	

Analysis Batch: 26181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	Moisture - 2540	
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	Moisture - 2540	
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	Moisture - 2540	
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	Moisture - 2540	
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	Moisture - 2540	
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	Moisture - 2540	
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	Moisture - 2540	
MB 860-26181/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Analysis Batch: 26186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-26186/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Leach Batch: 26219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Soluble	Solid	DI Leach	
860-13347-2	Cell18-45-S-3-4-211006	Soluble	Solid	DI Leach	
860-13347-3	Cell18-8-S-3-4-211006	Soluble	Solid	DI Leach	
860-13347-4	Cell18-162-S-3-4-211006	Soluble	Solid	DI Leach	
860-13347-9	Cell17-119-S-3-4-211006	Soluble	Solid	DI Leach	
860-13347-9 DU	Cell17-119-S-3-4-211006	Soluble	Solid	DI Leach	

QC Association Summary

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

Job ID: 860-13347-1

General Chemistry

Analysis Batch: 26222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Soluble	Solid	9045D	26219
860-13347-2	Cell18-45-S-3-4-211006	Soluble	Solid	9045D	26219
860-13347-3	Cell18-8-S-3-4-211006	Soluble	Solid	9045D	26219
860-13347-4	Cell18-162-S-3-4-211006	Soluble	Solid	9045D	26219
860-13347-9	Cell17-119-S-3-4-211006	Soluble	Solid	9045D	26219
860-13347-9 DU	Cell17-119-S-3-4-211006	Soluble	Solid	9045D	26219

Analysis Batch: 26233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	Moisture - 2540	
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	Moisture - 2540	
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	Moisture - 2540	
MB 860-26233/1	Method Blank	Total/NA	Solid	Moisture - 2540	
860-13347-8 DU	Cell17-136-S-3-4-211006	Total/NA	Solid	Moisture - 2540	

Leach Batch: 26605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-5	Cell18-76-S-3-4-211006	Soluble	Solid	DI Leach	
860-13347-6	Cell17-127-S-3-4-211006	Soluble	Solid	DI Leach	
860-13347-7	Cell17-23-S-3-4-211006	Soluble	Solid	DI Leach	
860-13347-8	Cell17-136-S-3-4-211006	Soluble	Solid	DI Leach	
860-13347-10	Cell25-190-S-3-4-211006	Soluble	Solid	DI Leach	

Analysis Batch: 26608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-5	Cell18-76-S-3-4-211006	Soluble	Solid	9045D	26605
860-13347-6	Cell17-127-S-3-4-211006	Soluble	Solid	9045D	26605
860-13347-7	Cell17-23-S-3-4-211006	Soluble	Solid	9045D	26605
860-13347-8	Cell17-136-S-3-4-211006	Soluble	Solid	9045D	26605
860-13347-10	Cell25-190-S-3-4-211006	Soluble	Solid	9045D	26605

Prep Batch: 27194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	9012A	
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	9012A	
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	9012A	
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	9012A	
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	9012A	
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	9012A	
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	9012A	
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	9012A	
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	9012A	
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	9012A	
MB 860-27194/4-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-27194/5-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-27194/6-A	Lab Control Sample	Total/NA	Solid	9012A	
860-13347-4 MS	Cell18-162-S-3-4-211006	Total/NA	Solid	9012A	
860-13347-4 MSD	Cell18-162-S-3-4-211006	Total/NA	Solid	9012A	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Analysis Batch: 27283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	9012A	27194
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	9012A	27194
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	9012A	27194
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	9012A	27194
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	9012A	27194
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	9012A	27194
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	9012A	27194
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	9012A	27194
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	9012A	27194
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	9012A	27194
MB 860-27194/4-A	Method Blank	Total/NA	Solid	9012A	27194
LCS 860-27194/5-A	Lab Control Sample	Total/NA	Solid	9012A	27194
LLCS 860-27194/6-A	Lab Control Sample	Total/NA	Solid	9012A	27194
860-13347-4 MS	Cell18-162-S-3-4-211006	Total/NA	Solid	9012A	27194
860-13347-4 MSD	Cell18-162-S-3-4-211006	Total/NA	Solid	9012A	27194

Prep Batch: 27528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	Distill/Phenol	
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	Distill/Phenol	
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	Distill/Phenol	
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	Distill/Phenol	
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	Distill/Phenol	
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	Distill/Phenol	
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	Distill/Phenol	
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	Distill/Phenol	
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	Distill/Phenol	
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	Distill/Phenol	
MB 860-27528/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-27528/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-27528/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	
860-13347-4 MS	Cell18-162-S-3-4-211006	Total/NA	Solid	Distill/Phenol	
860-13347-4 MSD	Cell18-162-S-3-4-211006	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 27788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	9066	27528
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	9066	27528
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	9066	27528
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	9066	27528
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	9066	27528
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	9066	27528
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	9066	27528
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	9066	27528
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	9066	27528
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	9066	27528
MB 860-27528/1-A	Method Blank	Total/NA	Solid	9066	27528
LCS 860-27528/2-A	Lab Control Sample	Total/NA	Solid	9066	27528
LCSD 860-27528/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	27528
860-13347-4 MS	Cell18-162-S-3-4-211006	Total/NA	Solid	9066	27528
860-13347-4 MSD	Cell18-162-S-3-4-211006	Total/NA	Solid	9066	27528

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Leach Batch: 189844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	7 Day Leach	Solid	335.521	
860-13347-2	Cell18-45-S-3-4-211006	7 Day Leach	Solid	335.521	
860-13347-3	Cell18-8-S-3-4-211006	7 Day Leach	Solid	335.521	
860-13347-4	Cell18-162-S-3-4-211006	7 Day Leach	Solid	335.521	
860-13347-5	Cell18-76-S-3-4-211006	7 Day Leach	Solid	335.521	
860-13347-6	Cell17-127-S-3-4-211006	7 Day Leach	Solid	335.521	
860-13347-7	Cell17-23-S-3-4-211006	7 Day Leach	Solid	335.521	
860-13347-8	Cell17-136-S-3-4-211006	7 Day Leach	Solid	335.521	
860-13347-9	Cell17-119-S-3-4-211006	7 Day Leach	Solid	335.521	
860-13347-10	Cell25-190-S-3-4-211006	7 Day Leach	Solid	335.521	
860-13347-4 DU	Cell18-162-S-3-4-211006	7 Day Leach	Solid	335.521	

Analysis Batch: 190117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	7 Day Leach	Solid	SM 2540C	189844
860-13347-2	Cell18-45-S-3-4-211006	7 Day Leach	Solid	SM 2540C	189844
860-13347-3	Cell18-8-S-3-4-211006	7 Day Leach	Solid	SM 2540C	189844
860-13347-4	Cell18-162-S-3-4-211006	7 Day Leach	Solid	SM 2540C	189844
860-13347-5	Cell18-76-S-3-4-211006	7 Day Leach	Solid	SM 2540C	189844
860-13347-6	Cell17-127-S-3-4-211006	7 Day Leach	Solid	SM 2540C	189844
860-13347-7	Cell17-23-S-3-4-211006	7 Day Leach	Solid	SM 2540C	189844
860-13347-8	Cell17-136-S-3-4-211006	7 Day Leach	Solid	SM 2540C	189844
860-13347-9	Cell17-119-S-3-4-211006	7 Day Leach	Solid	SM 2540C	189844
860-13347-10	Cell25-190-S-3-4-211006	7 Day Leach	Solid	SM 2540C	189844
MB 560-190117/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-190117/2	Lab Control Sample	Total/NA	Solid	SM 2540C	
860-13347-4 DU	Cell18-162-S-3-4-211006	7 Day Leach	Solid	SM 2540C	189844

Rad

Leach Batch: 531077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	Dry and Grind	
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	Dry and Grind	
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	Dry and Grind	
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	Dry and Grind	
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	Dry and Grind	
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	Dry and Grind	
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	Dry and Grind	
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	Dry and Grind	
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	Dry and Grind	
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	Dry and Grind	
860-13347-10 DU	Cell25-190-S-3-4-211006	Total/NA	Solid	Dry and Grind	

Prep Batch: 531365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-1	Cell19-114-S-3-4-211006	Total/NA	Solid	Fill_Geo-21	531077
860-13347-2	Cell18-45-S-3-4-211006	Total/NA	Solid	Fill_Geo-21	531077
860-13347-3	Cell18-8-S-3-4-211006	Total/NA	Solid	Fill_Geo-21	531077
860-13347-4	Cell18-162-S-3-4-211006	Total/NA	Solid	Fill_Geo-21	531077
860-13347-5	Cell18-76-S-3-4-211006	Total/NA	Solid	Fill_Geo-21	531077

QC Association Summary

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

Job ID: 860-13347-1

Rad (Continued)

Prep Batch: 531365 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13347-6	Cell17-127-S-3-4-211006	Total/NA	Solid	Fill_Geo-21	531077
860-13347-7	Cell17-23-S-3-4-211006	Total/NA	Solid	Fill_Geo-21	531077
860-13347-8	Cell17-136-S-3-4-211006	Total/NA	Solid	Fill_Geo-21	531077
860-13347-9	Cell17-119-S-3-4-211006	Total/NA	Solid	Fill_Geo-21	531077
860-13347-10	Cell25-190-S-3-4-211006	Total/NA	Solid	Fill_Geo-21	531077
MB 160-531365/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-531365/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
860-13347-10 DU	Cell25-190-S-3-4-211006	Total/NA	Solid	Fill_Geo-21	531077

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-114-S-3-4-211006
Lab Sample ID: 860-13347-1
Date Collected: 10/06/21 08:52
Matrix: Solid
Date Received: 10/08/21 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	8260B		1	5.1 g	5 mL	189770	10/12/21 15:47	RJT	XEN CC
Total/NA	Prep	3550C			30.02 g	1 mL	26116	10/13/21 07:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	26332	10/13/21 19:26	T1S	XEN STF
Total/NA	Prep	3546			15.19 g	1 mL	552164	10/20/21 08:00	BKL	TAL PEN
Total/NA	Analysis	8270D		1			552998	10/26/21 00:47	PP1	TAL PEN
Total/NA	Prep	8015NM Prep	RA		9.9 g	10 mL	26584	10/14/21 12:07	SAR	XEN STF
Total/NA	Analysis	8015B NM	RA	1			26740	10/15/21 11:40	IS	XEN STF
Total/NA	Prep	3550C			30.01 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8081B		1			26940	10/18/21 19:01	KM	XEN STF
Total/NA	ISM Prep	Increment, prep					553176	10/12/21 10:18	EKB	TAL DEN
Total/NA	Prep	8330B			10.17 g	40 mL	553608	10/14/21 18:05	DCL	TAL DEN
Total/NA	Analysis	8330B		1			553760	10/16/21 01:00	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.08 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27471	10/22/21 01:00	WP	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27472	10/22/21 01:00	WP	XEN STF
Total/NA	Prep	6860			10.76 g	100 mL	553021	10/11/21 13:18	TEH	TAL DEN
Total/NA	Analysis	6860		1			553306	10/12/21 15:15	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.27 g	20 mL	553234	10/13/21 10:29	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553683	10/15/21 10:54	AGCM	TAL DEN
Total/NA	Prep	3051A			.54 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26536	10/13/21 21:37	DCL	XEN STF
Total/NA	Prep	3051A			.54 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26725	10/14/21 18:07	DCL	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	25969	10/12/21 13:15	AGR	XEN STF
Total/NA	Analysis	7471A		1			26298	10/12/21 18:05	SHZ	XEN STF
Total/NA	Prep	9012A			0.4976 mL	6 mL	27194	10/19/21 13:27	YVD	XEN STF
Total/NA	Analysis	9012A		1			27283	10/19/21 15:37	YVD	XEN STF
Soluble	Leach	DI Leach			20.08 g	20 mL	26219	10/12/21 12:58	JP	XEN STF
Soluble	Analysis	9045D		1	20.08 g	20 mL	26222	10/12/21 13:07	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.2688 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 11:04	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26181	10/12/21 08:51	CM1	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26153	10/12/21 09:27	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189844	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	531077	10/11/21 18:55	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			320.2000 g	1.0 g	531365	10/13/21 10:30	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			535387	11/08/21 08:29	CAH	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-114-S-3-4-211006
Lab Sample ID: 860-13347-1
Date Collected: 10/06/21 08:52
Matrix: Solid
Date Received: 10/08/21 10:21
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	26001	10/11/21 11:34	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27086	10/19/21 13:00	NA	XEN STF
Total/NA	Prep	3550C			30.01 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8082A		1			26386	10/13/21 17:06	JAL	XEN STF

Client Sample ID: Cell18-45-S-3-4-211006
Lab Sample ID: 860-13347-2
Date Collected: 10/06/21 09:21
Matrix: Solid
Date Received: 10/08/21 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	8260B		1	5.57 g	5 mL	189770	10/12/21 16:12	RJT	XEN CC
Total/NA	Prep	3550C			30.06 g	1 mL	26116	10/13/21 07:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	26332	10/13/21 19:46	T1S	XEN STF
Total/NA	Prep	3546			15.15 g	1 mL	552164	10/20/21 08:00	BKL	TAL PEN
Total/NA	Analysis	8270D		1			552998	10/26/21 01:14	PP1	TAL PEN
Total/NA	Prep	8015NM Prep	RA		9.98 g	10 mL	26584	10/14/21 12:07	SAR	XEN STF
Total/NA	Analysis	8015B NM	RA	1			26740	10/15/21 12:34	IS	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8081B		1			26940	10/18/21 19:15	KM	XEN STF
Total/NA	ISM Prep	Increment, prep					553176	10/12/21 10:18	EKB	TAL DEN
Total/NA	Prep	8330B			10.2 g	40 mL	553608	10/14/21 18:05	DCL	TAL DEN
Total/NA	Analysis	8330B		1			553760	10/16/21 01:23	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.97 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27471	10/22/21 01:32	WP	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27472	10/22/21 01:32	WP	XEN STF
Total/NA	Prep	6860			10.78 g	100 mL	553021	10/11/21 13:18	TEH	TAL DEN
Total/NA	Analysis	6860		1			553306	10/12/21 15:20	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.43 g	20 mL	553234	10/13/21 10:29	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553683	10/15/21 11:03	AGCM	TAL DEN
Total/NA	Prep	3051A			.54 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26536	10/13/21 21:40	DCL	XEN STF
Total/NA	Prep	3051A			.54 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26725	10/14/21 18:10	DCL	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	25969	10/12/21 13:15	AGR	XEN STF
Total/NA	Analysis	7471A		1			26298	10/12/21 17:42	SHZ	XEN STF
Total/NA	Prep	9012A			0.4979 mL	6 mL	27194	10/19/21 13:27	YVD	XEN STF
Total/NA	Analysis	9012A		1			27283	10/19/21 15:38	YVD	XEN STF
Soluble	Leach	DI Leach			20.12 g	20 mL	26219	10/12/21 12:58	JP	XEN STF
Soluble	Analysis	9045D		1	20.12 g	20 mL	26222	10/12/21 13:07	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.1612 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 11:06	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26181	10/12/21 08:51	CM1	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26153	10/12/21 09:27	BM	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-45-S-3-4-211006 Lab Sample ID: 860-13347-2
Date Collected: 10/06/21 09:21 **Matrix: Solid**
Date Received: 10/08/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			250 g	1000 mL	189844	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	531077	10/11/21 18:55	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			336.7000 g	1.0 g	531365	10/13/21 10:30	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			535394	11/08/21 08:59	CAH	TAL SL

Client Sample ID: Cell18-45-S-3-4-211006 Lab Sample ID: 860-13347-2
Date Collected: 10/06/21 09:21 **Matrix: Solid**
Date Received: 10/08/21 10:21 **Percent Solids: 71.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	26001	10/11/21 11:34	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27086	10/19/21 13:17	NA	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8082A		1			26386	10/13/21 17:44	JAL	XEN STF

Client Sample ID: Cell18-8-S-3-4-211006 Lab Sample ID: 860-13347-3
Date Collected: 10/06/21 10:10 **Matrix: Solid**
Date Received: 10/08/21 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	8260B		1	5.28 g	5 mL	189770	10/12/21 16:37	RJT	XEN CC
Total/NA	Prep	3550C			30.05 g	1 mL	26116	10/13/21 07:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	26332	10/13/21 20:06	T1S	XEN STF
Total/NA	Prep	3546			15.29 g	1 mL	552164	10/20/21 08:00	BKL	TAL PEN
Total/NA	Analysis	8270D		1			552998	10/26/21 01:41	PP1	TAL PEN
Total/NA	Prep	8015NM Prep	RA		10.06 g	10 mL	26584	10/14/21 12:07	SAR	XEN STF
Total/NA	Analysis	8015B NM	RA	1			26740	10/15/21 12:52	IS	XEN STF
Total/NA	Prep	3550C			30.01 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8081B		1			26940	10/18/21 19:29	KM	XEN STF
Total/NA	ISM Prep	Increment, prep					553176	10/12/21 10:18	EKB	TAL DEN
Total/NA	Prep	8330B			10.04 g	40 mL	553608	10/14/21 18:05	DCL	TAL DEN
Total/NA	Analysis	8330B		1			553760	10/16/21 01:46	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.92 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27471	10/22/21 01:43	WP	XEN STF
Total/NA	Prep	300_Prep			4.92 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27472	10/22/21 01:43	WP	XEN STF
Total/NA	Prep	6860			10.12 g	100 mL	553021	10/11/21 13:18	TEH	TAL DEN
Total/NA	Analysis	6860		1			553306	10/12/21 15:25	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.63 g	20 mL	553234	10/13/21 10:29	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553683	10/15/21 11:12	AGCM	TAL DEN
Total/NA	Prep	3051A			.56 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26536	10/13/21 21:43	DCL	XEN STF
Total/NA	Prep	3051A			.56 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26725	10/14/21 18:13	DCL	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-8-S-3-4-211006 Lab Sample ID: 860-13347-3

Date Collected: 10/06/21 10:10 **Matrix: Solid**
Date Received: 10/08/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			.50 g	50 mL	25969	10/12/21 13:15	AGR	XEN STF
Total/NA	Analysis	7471A		1			26298	10/12/21 17:43	SHZ	XEN STF
Total/NA	Prep	9012A			0.5011 mL	6 mL	27194	10/19/21 13:27	YVD	XEN STF
Total/NA	Analysis	9012A		1			27283	10/19/21 15:40	YVD	XEN STF
Soluble	Leach	DI Leach			20.27 g	20 mL	26219	10/12/21 12:58	JP	XEN STF
Soluble	Analysis	9045D		1	20.27 g	20 mL	26222	10/12/21 13:07	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.2370 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 11:09	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26181	10/12/21 08:51	CM1	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26153	10/12/21 09:27	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189844	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	531077	10/11/21 18:55	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			328.6000 g	1.0 g	531365	10/13/21 10:30	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			535400	11/08/21 09:00	CAH	TAL SL

Client Sample ID: Cell18-8-S-3-4-211006 Lab Sample ID: 860-13347-3

Date Collected: 10/06/21 10:10 **Matrix: Solid**
Date Received: 10/08/21 10:21 **Percent Solids: 73.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	26001	10/11/21 11:34	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27086	10/19/21 13:34	NA	XEN STF
Total/NA	Prep	3550C			30.01 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8082A		1			26386	10/13/21 17:54	JAL	XEN STF

Client Sample ID: Cell18-162-S-3-4-211006 Lab Sample ID: 860-13347-4

Date Collected: 10/06/21 11:04 **Matrix: Solid**
Date Received: 10/08/21 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	8260B		1	5.54 g	5 mL	189770	10/12/21 17:03	RJT	XEN CC
Total/NA	Prep	3550C			30.03 g	1 mL	26116	10/13/21 07:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	26332	10/13/21 20:27	T1S	XEN STF
Total/NA	Prep	3546			15.27 g	1 mL	552164	10/20/21 08:00	BKL	TAL PEN
Total/NA	Analysis	8270D		1			552998	10/26/21 02:08	PP1	TAL PEN
Total/NA	Prep	8015NM Prep	RA		10 g	10 mL	26584	10/14/21 12:07	SAR	XEN STF
Total/NA	Analysis	8015B NM	RA	1			26740	10/15/21 13:10	IS	XEN STF
Total/NA	Prep	3550C			29.97 g	5.0 mL	27227	10/19/21 16:18	GSM	XEN STF
Total/NA	Analysis	8081B		1			27493	10/21/21 13:08	KM	XEN STF
Total/NA	ISM Prep	Increment, prep					553176	10/12/21 10:18	EKB	TAL DEN
Total/NA	Prep	8330B			10.42 g	40 mL	553608	10/14/21 18:05	DCL	TAL DEN
Total/NA	Analysis	8330B		1			553760	10/16/21 02:09	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.08 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27471	10/22/21 01:53	WP	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-162-S-3-4-211006 Lab Sample ID: 860-13347-4

Date Collected: 10/06/21 11:04 **Matrix: Solid**
Date Received: 10/08/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			5.08 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27472	10/22/21 01:53	WP	XEN STF
Total/NA	Prep	6860			10.05 g	100 mL	553021	10/11/21 13:18	TEH	TAL DEN
Total/NA	Analysis	6860		1			553306	10/12/21 15:30	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.5 g	20 mL	553234	10/13/21 10:29	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553683	10/15/21 11:20	AGCM	TAL DEN
Total/NA	Prep	3051A			.54 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26536	10/13/21 21:46	DCL	XEN STF
Total/NA	Prep	3051A			.54 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26725	10/14/21 18:16	DCL	XEN STF
Total/NA	Prep	7471A			.54 g	50 mL	25969	10/12/21 13:15	AGR	XEN STF
Total/NA	Analysis	7471A		1			26298	10/12/21 17:45	SHZ	XEN STF
Total/NA	Prep	9012A			0.4993 mL	6 mL	27194	10/19/21 13:27	YVD	XEN STF
Total/NA	Analysis	9012A		1			27283	10/19/21 15:41	YVD	XEN STF
Soluble	Leach	DI Leach			20.21 g	20 mL	26219	10/12/21 12:58	JP	XEN STF
Soluble	Analysis	9045D		1	20.21 g	20 mL	26222	10/12/21 13:07	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.0080 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 11:12	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26181	10/12/21 08:51	CM1	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26153	10/12/21 09:27	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189844	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	531077	10/11/21 18:55	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			303.2000 g	1.0 g	531365	10/13/21 10:30	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			535420	11/08/21 09:00	CAH	TAL SL

Client Sample ID: Cell18-162-S-3-4-211006 Lab Sample ID: 860-13347-4

Date Collected: 10/06/21 11:04 **Matrix: Solid**
Date Received: 10/08/21 10:21 **Percent Solids: 89.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	26001	10/11/21 11:34	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27086	10/19/21 13:51	NA	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8082A		1			26386	10/13/21 18:03	JAL	XEN STF

Client Sample ID: Cell18-76-S-3-4-211006 Lab Sample ID: 860-13347-5

Date Collected: 10/06/21 10:38 **Matrix: Solid**
Date Received: 10/08/21 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	8260B		1	5.53 g	5 mL	189770	10/12/21 17:29	RJT	XEN CC
Total/NA	Prep	3550C			30.02 g	1 mL	26116	10/13/21 07:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	26332	10/13/21 20:47	T1S	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-76-S-3-4-211006
Lab Sample ID: 860-13347-5
Date Collected: 10/06/21 10:38
Matrix: Solid
Date Received: 10/08/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.15 g	1 mL	552164	10/20/21 08:00	BKL	TAL PEN
Total/NA	Analysis	8270D		1			552998	10/26/21 02:35	PP1	TAL PEN
Total/NA	Prep	8015NM Prep	RA		10.05 g	10 mL	26584	10/14/21 12:07	SAR	XEN STF
Total/NA	Analysis	8015B NM	RA	1			26740	10/15/21 13:28	IS	XEN STF
Total/NA	Prep	3550C			30.03 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8081B		1			26940	10/18/21 20:11	KM	XEN STF
Total/NA	ISM Prep	Increment, prep					553176	10/12/21 10:18	EKB	TAL DEN
Total/NA	Prep	8330B			10.08 g	40 mL	553608	10/14/21 18:05	DCL	TAL DEN
Total/NA	Analysis	8330B		1			553760	10/16/21 02:32	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.09 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27471	10/22/21 02:04	WP	XEN STF
Total/NA	Prep	300_Prep			5.09 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27472	10/22/21 02:04	WP	XEN STF
Total/NA	Prep	6860			10.42 g	100 mL	553021	10/11/21 13:18	TEH	TAL DEN
Total/NA	Analysis	6860		1			553306	10/12/21 15:35	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.6 g	20 mL	553234	10/13/21 10:29	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553683	10/15/21 11:29	AGCM	TAL DEN
Total/NA	Prep	3051A			.54 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26536	10/13/21 21:49	DCL	XEN STF
Total/NA	Prep	3051A			.54 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26725	10/14/21 18:26	DCL	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	25969	10/12/21 13:15	AGR	XEN STF
Total/NA	Analysis	7471A		1			26298	10/12/21 17:46	SHZ	XEN STF
Total/NA	Prep	9012A			0.5006 mL	6 mL	27194	10/19/21 13:27	YVD	XEN STF
Total/NA	Analysis	9012A		1			27283	10/19/21 15:45	YVD	XEN STF
Soluble	Leach	DI Leach			20.02 g	20 mL	26605	10/14/21 14:13	JP	XEN STF
Soluble	Analysis	9045D		1	20.02 g	20 mL	26608	10/14/21 14:34	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.0809 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 11:20	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26181	10/12/21 08:51	CM1	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26153	10/12/21 09:27	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189844	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	531077	10/11/21 18:55	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			318.7000 g	1.0 g	531365	10/13/21 10:30	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			535402	11/08/21 09:01	CAH	TAL SL

Client Sample ID: Cell18-76-S-3-4-211006
Lab Sample ID: 860-13347-5
Date Collected: 10/06/21 10:38
Matrix: Solid
Date Received: 10/08/21 10:21
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	26001	10/11/21 11:34	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27086	10/19/21 14:08	NA	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-76-S-3-4-211006 Lab Sample ID: 860-13347-5

Date Collected: 10/06/21 10:38 **Matrix: Solid**
Date Received: 10/08/21 10:21 **Percent Solids: 90.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.03 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8082A		1			26386	10/13/21 18:13	JAL	XEN STF

Client Sample ID: Cell17-127-S-3-4-211006 Lab Sample ID: 860-13347-6

Date Collected: 10/06/21 11:48 **Matrix: Solid**
Date Received: 10/08/21 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	8260B		1	5.09 g	5 mL	189770	10/12/21 17:54	RJT	XEN CC
Total/NA	Prep	3550C			30.05 g	1 mL	26116	10/13/21 07:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	26332	10/13/21 21:07	T1S	XEN STF
Total/NA	Prep	3546			15.27 g	1 mL	552164	10/20/21 08:00	BKL	TAL PEN
Total/NA	Analysis	8270D		1			553070	10/26/21 08:17	KJA	TAL PEN
Total/NA	Prep	8015NM Prep	RA		10.07 g	10 mL	26584	10/14/21 12:07	SAR	XEN STF
Total/NA	Analysis	8015B NM	RA	1			26740	10/15/21 13:46	IS	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8081B		1			26940	10/18/21 20:24	KM	XEN STF
Total/NA	ISM Prep	Increment, prep					553176	10/12/21 10:18	EKB	TAL DEN
Total/NA	Prep	8330B			10.17 g	40 mL	553608	10/14/21 18:05	DCL	TAL DEN
Total/NA	Analysis	8330B		1			553760	10/16/21 03:18	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.03 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27471	10/22/21 02:36	WP	XEN STF
Total/NA	Prep	300_Prep			5.03 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27472	10/22/21 02:36	WP	XEN STF
Total/NA	Prep	6860			10.79 g	100 mL	553021	10/11/21 13:18	TEH	TAL DEN
Total/NA	Analysis	6860		1			553306	10/12/21 15:40	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.07 g	20 mL	553234	10/13/21 10:29	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553683	10/15/21 11:47	AGCM	TAL DEN
Total/NA	Prep	3051A			.56 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26536	10/13/21 21:52	DCL	XEN STF
Total/NA	Prep	3051A			.56 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26725	10/14/21 18:29	DCL	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	25969	10/12/21 13:15	AGR	XEN STF
Total/NA	Analysis	7471A		1			26298	10/12/21 17:47	SHZ	XEN STF
Total/NA	Prep	9012A			0.5001 mL	6 mL	27194	10/19/21 13:27	YVD	XEN STF
Total/NA	Analysis	9012A		1			27283	10/19/21 15:47	YVD	XEN STF
Soluble	Leach	DI Leach			20.44 g	20 mL	26605	10/14/21 14:13	JP	XEN STF
Soluble	Analysis	9045D		1	20.44 g	20 mL	26608	10/14/21 14:34	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.0130 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 11:22	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26181	10/12/21 08:51	CM1	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26153	10/12/21 09:27	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189844	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-127-S-3-4-211006 Lab Sample ID: 860-13347-6
Date Collected: 10/06/21 11:48 **Matrix: Solid**
Date Received: 10/08/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	531077	10/11/21 18:55	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			325.1000 g	1.0 g	531365	10/13/21 10:30	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			535399	11/08/21 09:08	CAH	TAL SL

Client Sample ID: Cell17-127-S-3-4-211006 Lab Sample ID: 860-13347-6
Date Collected: 10/06/21 11:48 **Matrix: Solid**
Date Received: 10/08/21 10:21 **Percent Solids: 73.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	26001	10/11/21 11:34	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27086	10/19/21 14:25	NA	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8082A		1			26386	10/13/21 18:22	JAL	XEN STF

Client Sample ID: Cell17-23-S-3-4-211006 Lab Sample ID: 860-13347-7
Date Collected: 10/06/21 12:41 **Matrix: Solid**
Date Received: 10/08/21 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	8260B		1	5.15 g	5 mL	189770	10/12/21 18:19	RJT	XEN CC
Total/NA	Prep	3550C			30.02 g	1 mL	26116	10/13/21 07:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	26332	10/13/21 21:27	T1S	XEN STF
Total/NA	Prep	3546			15.05 g	1 mL	552164	10/20/21 08:00	BKL	TAL PEN
Total/NA	Analysis	8270D		1			553070	10/26/21 05:15	KJA	TAL PEN
Total/NA	Prep	8015NM Prep	RA		9.99 g	10 mL	26584	10/14/21 12:07	SAR	XEN STF
Total/NA	Analysis	8015B NM	RA	1			26740	10/15/21 14:04	IS	XEN STF
Total/NA	Prep	3550C			30.03 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8081B		1			26940	10/18/21 20:38	KM	XEN STF
Total/NA	ISM Prep	Increment, prep					553176	10/12/21 10:18	EKB	TAL DEN
Total/NA	Prep	8330B			10.7 g	40 mL	553608	10/14/21 18:05	DCL	TAL DEN
Total/NA	Analysis	8330B		1			553760	10/16/21 03:41	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.07 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27471	10/22/21 02:47	WP	XEN STF
Total/NA	Prep	300_Prep			5.07 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27472	10/22/21 02:47	WP	XEN STF
Total/NA	Prep	6860			10.66 g	100 mL	553021	10/11/21 13:18	TEH	TAL DEN
Total/NA	Analysis	6860		1			553306	10/12/21 15:45	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.62 g	20 mL	553234	10/13/21 10:29	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553683	10/15/21 11:56	AGCM	TAL DEN
Total/NA	Prep	3051A			.58 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26536	10/13/21 21:56	DCL	XEN STF
Total/NA	Prep	3051A			.58 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26725	10/14/21 18:32	DCL	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	25969	10/12/21 13:15	AGR	XEN STF
Total/NA	Analysis	7471A		1			26298	10/12/21 17:49	SHZ	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-23-S-3-4-211006 Lab Sample ID: 860-13347-7

Date Collected: 10/06/21 12:41 **Matrix: Solid**
Date Received: 10/08/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012A			0.4993 mL	6 mL	27194	10/19/21 13:27	YVD	XEN STF
Total/NA	Analysis	9012A		1			27283	10/19/21 16:16	YVD	XEN STF
Soluble	Leach	DI Leach			20.09 g	20 mL	26605	10/14/21 14:13	JP	XEN STF
Soluble	Analysis	9045D		1	20.00 g	20 mL	26608	10/14/21 14:34	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.0281 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 11:36	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26181	10/12/21 08:51	CM1	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26153	10/12/21 09:27	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189844	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	531077	10/11/21 18:55	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			314.5000 g	1.0 g	531365	10/13/21 10:30	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			535394	11/08/21 09:36	CAH	TAL SL

Client Sample ID: Cell17-23-S-3-4-211006 Lab Sample ID: 860-13347-7

Date Collected: 10/06/21 12:41 **Matrix: Solid**
Date Received: 10/08/21 10:21 **Percent Solids: 87.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	26001	10/11/21 11:34	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27086	10/19/21 14:42	NA	XEN STF
Total/NA	Prep	3550C			30.03 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8082A		1			26386	10/13/21 18:32	JAL	XEN STF

Client Sample ID: Cell17-136-S-3-4-211006 Lab Sample ID: 860-13347-8

Date Collected: 10/06/21 13:31 **Matrix: Solid**
Date Received: 10/08/21 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	8260B		1	5.45 g	5 mL	189770	10/12/21 18:45	RJT	XEN CC
Total/NA	Prep	3550C			30.02 g	1 mL	26116	10/13/21 07:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	26332	10/13/21 21:47	T1S	XEN STF
Total/NA	Prep	3546			15.26 g	1 mL	552164	10/20/21 08:00	BKL	TAL PEN
Total/NA	Analysis	8270D		1			553070	10/26/21 05:42	KJA	TAL PEN
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	26584	10/14/21 12:07	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			26663	10/15/21 03:52	T1S	XEN STF
Total/NA	Prep	3550C			30.03 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8081B		1			26940	10/18/21 20:52	KM	XEN STF
Total/NA	ISM Prep	Increment, prep					553176	10/12/21 10:18	EKB	TAL DEN
Total/NA	Prep	8330B			10.62 g	40 mL	553608	10/14/21 18:05	DCL	TAL DEN
Total/NA	Analysis	8330B		1			553760	10/16/21 04:04	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.08 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27471	10/22/21 02:57	WP	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27472	10/22/21 02:57	WP	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-136-S-3-4-211006 Lab Sample ID: 860-13347-8

Date Collected: 10/06/21 13:31 **Matrix: Solid**
Date Received: 10/08/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	6860			10.47 g	100 mL	553021	10/11/21 13:18	TEH	TAL DEN
Total/NA	Analysis	6860		1			553306	10/12/21 16:06	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.75 g	20 mL	553234	10/13/21 10:29	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553683	10/15/21 12:04	AGCM	TAL DEN
Total/NA	Prep	3051A			.54 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26536	10/13/21 21:59	DCL	XEN STF
Total/NA	Prep	3051A			.54 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26725	10/14/21 18:35	DCL	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	25969	10/12/21 13:15	AGR	XEN STF
Total/NA	Analysis	7471A		1			26298	10/12/21 17:50	SHZ	XEN STF
Total/NA	Prep	9012A			0.4992 mL	6 mL	27194	10/19/21 13:27	YVD	XEN STF
Total/NA	Analysis	9012A		1			27283	10/19/21 16:17	YVD	XEN STF
Soluble	Leach	DI Leach			20.10 g	20 mL	26605	10/14/21 14:13	JP	XEN STF
Soluble	Analysis	9045D		1	20.10 g	20 mL	26608	10/14/21 14:34	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.0644 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 11:38	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26233	10/12/21 09:33	CM1	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189844	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	531077	10/11/21 18:55	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			308.5000 g	1.0 g	531365	10/13/21 10:30	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			535399	11/08/21 09:41	CAH	TAL SL

Client Sample ID: Cell17-136-S-3-4-211006 Lab Sample ID: 860-13347-8

Date Collected: 10/06/21 13:31 **Matrix: Solid**
Date Received: 10/08/21 10:21 **Percent Solids: 76.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	26001	10/11/21 11:34	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27086	10/19/21 14:59	NA	XEN STF
Total/NA	Prep	3550C			30.03 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8082A		1			26386	10/13/21 18:42	JAL	XEN STF

Client Sample ID: Cell17-119-S-3-4-211006 Lab Sample ID: 860-13347-9

Date Collected: 10/06/21 13:07 **Matrix: Solid**
Date Received: 10/08/21 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	8260B		1	5.72 g	5 mL	189770	10/12/21 19:11	RJT	XEN CC
Total/NA	Prep	3550C			30.06 g	1 mL	26116	10/13/21 07:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	26332	10/13/21 22:08	T1S	XEN STF
Total/NA	Prep	3546			15.12 g	1 mL	552164	10/20/21 08:00	BKL	TAL PEN
Total/NA	Analysis	8270D		1			553070	10/26/21 06:08	KJA	TAL PEN
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	26584	10/14/21 12:07	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			26663	10/15/21 04:11	T1S	XEN STF

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-119-S-3-4-211006
Lab Sample ID: 860-13347-9
Date Collected: 10/06/21 13:07
Matrix: Solid
Date Received: 10/08/21 10:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.02 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8081B		1			26940	10/18/21 21:06	KM	XEN STF
Total/NA	ISM Prep	Increment, prep					553176	10/12/21 10:18	EKB	TAL DEN
Total/NA	Prep	8330B			10.95 g	40 mL	553608	10/14/21 18:05	DCL	TAL DEN
Total/NA	Analysis	8330B		1			553760	10/16/21 04:26	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.94 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27471	10/22/21 03:08	WP	XEN STF
Total/NA	Prep	300_Prep			4.94 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27472	10/22/21 03:08	WP	XEN STF
Total/NA	Prep	6860			10.55 g	100 mL	553021	10/11/21 13:18	TEH	TAL DEN
Total/NA	Analysis	6860		1			553306	10/12/21 16:11	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.08 g	20 mL	553234	10/13/21 10:29	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553683	10/15/21 12:13	AGCM	TAL DEN
Total/NA	Prep	3051A			.53 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26536	10/13/21 22:02	DCL	XEN STF
Total/NA	Prep	3051A			.53 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26725	10/14/21 18:38	DCL	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	25969	10/12/21 13:15	AGR	XEN STF
Total/NA	Analysis	7471A		1			26298	10/12/21 17:54	SHZ	XEN STF
Total/NA	Prep	9012A			0.4982 mL	6 mL	27194	10/19/21 13:27	YVD	XEN STF
Total/NA	Analysis	9012A		1			27283	10/19/21 16:18	YVD	XEN STF
Soluble	Leach	DI Leach			20.05 g	20 mL	26219	10/12/21 12:58	JP	XEN STF
Soluble	Analysis	9045D		1	20.05 g	20 mL	26222	10/12/21 13:07	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.0039 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 11:41	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26233	10/12/21 09:33	CM1	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189844	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	531077	10/11/21 18:55	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			333.4000 g	1.0 g	531365	10/13/21 10:30	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			535400	11/08/21 09:37	CAH	TAL SL

Client Sample ID: Cell17-119-S-3-4-211006
Lab Sample ID: 860-13347-9
Date Collected: 10/06/21 13:07
Matrix: Solid
Date Received: 10/08/21 10:21
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	26001	10/11/21 11:34	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27086	10/19/21 15:15	NA	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8082A		1			26386	10/13/21 18:51	JAL	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-190-S-3-4-211006
Lab Sample ID: 860-13347-10

Date Collected: 10/06/21 14:13
Matrix: Solid
Date Received: 10/08/21 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	8260B		1	5.65 g	5 mL	189770	10/12/21 19:36	RJT	XEN CC
Total/NA	Prep	3550C			30.02 g	1 mL	26116	10/13/21 07:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	26332	10/13/21 22:28	T1S	XEN STF
Total/NA	Prep	3546			15.46 g	1 mL	552164	10/20/21 08:00	BKL	TAL PEN
Total/NA	Analysis	8270D		1			553070	10/26/21 06:35	KJA	TAL PEN
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	26584	10/14/21 12:07	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			26663	10/15/21 04:29	T1S	XEN STF
Total/NA	Prep	3550C			30.03 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8081B		1			26940	10/18/21 21:20	KM	XEN STF
Total/NA	ISM Prep	Increment, prep					553176	10/12/21 10:18	EKB	TAL DEN
Total/NA	Prep	8330B			10.96 g	40 mL	553608	10/14/21 18:05	DCL	TAL DEN
Total/NA	Analysis	8330B		1			553760	10/16/21 04:49	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.95 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27471	10/22/21 03:19	WP	XEN STF
Total/NA	Prep	300_Prep			4.95 g	50 mL	27632	10/21/21 18:53	ANP	XEN STF
Total/NA	Analysis	9056A		1			27472	10/22/21 03:19	WP	XEN STF
Total/NA	Prep	6860			10.46 g	100 mL	553021	10/11/21 13:18	TEH	TAL DEN
Total/NA	Analysis	6860		1			553306	10/12/21 16:16	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.34 g	20 mL	553234	10/13/21 10:29	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553683	10/15/21 12:22	AGCM	TAL DEN
Total/NA	Prep	3051A			.55 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26536	10/13/21 22:05	DCL	XEN STF
Total/NA	Prep	3051A			.55 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26725	10/14/21 18:41	DCL	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	25969	10/12/21 13:15	AGR	XEN STF
Total/NA	Analysis	7471A		1			26298	10/12/21 17:56	SHZ	XEN STF
Total/NA	Prep	9012A			0.4986 mL	6 mL	27194	10/19/21 13:27	YVD	XEN STF
Total/NA	Analysis	9012A		1			27283	10/19/21 16:20	YVD	XEN STF
Soluble	Leach	DI Leach			20.20 g	20 mL	26605	10/14/21 14:13	JP	XEN STF
Soluble	Analysis	9045D		1	20.20 g	20 mL	26608	10/14/21 14:34	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.0613 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 11:44	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26233	10/12/21 09:33	CM1	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189844	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	531077	10/11/21 18:55	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			344.3000 g	1.0 g	531365	10/13/21 10:30	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			535422	11/08/21 09:02	CAH	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-190-S-3-4-211006
Lab Sample ID: 860-13347-10

Date Collected: 10/06/21 14:13
Matrix: Solid
Date Received: 10/08/21 10:21
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	26001	10/11/21 11:34	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27086	10/19/21 15:32	NA	XEN STF
Total/NA	Prep	3550C			30.03 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8082A		1			26386	10/13/21 19:01	JAL	XEN STF

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 Xenco, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471
XEN STF = Eurofins Xenco, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Xenco

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	12-16-21

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	11-02-21
A2LA	ISO/IEC 17025	2907.01	11-02-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-28-22
Arizona	State	AZ0713	12-19-21
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	01-08-22
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	12-31-21
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-26-21
Nevada	State	CO000262020-1	11-21-21
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	12-14-21
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-21
North Dakota	State	R-034	01-08-22
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-22
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	11-02-21
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 *
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	11-29-21
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-21

Laboratory: Eurofins Pensacola

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

Eurofins Xenco

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Pensacola (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
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	10-31-21
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-21
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-21
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	12-31-21
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-22
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	12-31-21

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	04-06-22
Arizona	State	AZ0813	12-08-21
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
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	01-01-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-21
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22

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

Eurofins Xenco

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-13347-1
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
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	12-27-21
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	11-18-21
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	03-01-22
South Carolina	State	85002001	12-12-21
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

Laboratory: Eurofins Xenco

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

Method Summary

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

Job ID: 860-13347-1

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
Increment, prep	ISM - Dry, Disaggregate, Sieve, 2 D Slabcake Subsample	EPA	TAL DEN
PFC leach	Leaching procedure for PFAS	TAL-DEN	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: 860-13347-1

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 Xenco, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = Eurofins Xenco, 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: 860-13347-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-13347-1	Cell19-114-S-3-4-211006	Solid	10/06/21 08:52	10/08/21 10:21
860-13347-2	Cell18-45-S-3-4-211006	Solid	10/06/21 09:21	10/08/21 10:21
860-13347-3	Cell18-8-S-3-4-211006	Solid	10/06/21 10:10	10/08/21 10:21
860-13347-4	Cell18-162-S-3-4-211006	Solid	10/06/21 11:04	10/08/21 10:21
860-13347-5	Cell18-76-S-3-4-211006	Solid	10/06/21 10:38	10/08/21 10:21
860-13347-6	Cell17-127-S-3-4-211006	Solid	10/06/21 11:48	10/08/21 10:21
860-13347-7	Cell17-23-S-3-4-211006	Solid	10/06/21 12:41	10/08/21 10:21
860-13347-8	Cell17-136-S-3-4-211006	Solid	10/06/21 13:31	10/08/21 10:21
860-13347-9	Cell17-119-S-3-4-211006	Solid	10/06/21 13:07	10/08/21 10:21
860-13347-10	Cell25-190-S-3-4-211006	Solid	10/06/21 14:13	10/08/21 10:21

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Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of

860-13347 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: Terry Silvas	Phone: 432-288-0876	E-Mail: Sachin.Kudchadkar@Eurofinset.com	Carrier Tracking No(s):	COC No: 860-4906-1683.1
Client Contact: Alison Schaffer				State of Origin:	Page: Page
Company: ARCADIS U.S. Inc.		PWSID:			Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:				
City: Highlands Ranch	TAT Requested (days):				
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

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)	GA_01_R_Ra (MOD) Radium-226/228	6850 Standard 6850 list	8330B (MOD) DOD Sublist	PFC (MOD) Custom List	8270D_AgChem (MOD) Copy Analytes	2540C Local Method	8260B - (MOD) mod	8260C_SIM 1,4-Dioxane	8015MOD_NM (MOD) Copy Analytes	6020A, 7471A, 8081B, 8082A, 8270D, 9012A, 9045D, 9056A_ORGFM_28D, 9056A_ORGFM_48H, 9066				Total Number of containers
Preservation Code:							N	N	N	N	N	N	N	N	N	N				
Cell 19-114-S-3-4-211006	10/6/21	0852		Solid			X	X	X	X	X	X	X	X	X	X				
Cell 18-45-S-3-4-211006	10/6/21	0928		Solid			X	X	X	X	X	X	X	X	X	X				
Cell 18-8-S-3-4-211006	10/6/21	1010		Solid			X	X	X	X	X	X	X	X	X	X				
Cell 18-162-S-3-4-211006	10/6/21	1104		Solid			X	X	X	X	X	X	X	X	X	X				
Cell 18-76-S-3-4-211006	10/6/21	1038		Solid			X	X	X	X	X	X	X	X	X	X				
Cell A-127-S-3-4-211006	10/6/21	1148		Solid			X	X	X	X	X	X	X	X	X	X				
Cell 17-23-S-3-4-211006	10/6/21	1241		Solid			X	X	X	X	X	X	X	X	X	X				
Cell 17-136-S-3-4-211006	10/6/21	1331		Solid			X	X	X	X	X	X	X	X	X	X				
Cell 17-119-S-3-4-211006	10/6/21	1307		Solid			X	X	X	X	X	X	X	X	X	X				
Cell 25-190-S-3-4-211006	10/6/21	1413		Solid			X	X	X	X	X	X	X	X	X	X				
				Solid																

Temp: 1.1 IR ID.HOU-272 C/F:+0.2 Corrected Temp: 1.3
Temp. 5.1 IR ID:HOU-272 C/F:+0.2 Corrected Temp. 5.3
C/F:+0.2 Corrected Temp. 4.4
Temp: 3.1 IR ID:HOU-272 C/F:+0.2 Corrected Temp: 3.7
Temp. 6.1 IR ID:HOU-272 C/F:+0.2 Corrected Temp: 6.3
Temp. 5.1 IR ID:HOU-272 C/F:+0.2 Corrected Temp. 5.3
Temp. 4.5 IR ID.HOU-272 C/F:+0.2 Corrected Temp: 4.7
Temp. 2.1 IR ID.HOU-272 C/F:+0.2 Corrected Temp: 2.3
Temp. 3.1 IR ID:HOU-272 C/F:+0.2 Corrected Temp. 3.3
Temp: 5.1 IR ID:HOU-272 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 ret
☐ Return To Client ☒ Disposal By Lab ☐ Archive For

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
		10/7/21 1550	ARCADIS			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/8/21 10:21	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: 4/7/2022 9:53:37 AM

Released to Imaging: 4/20/2022 8:49:45 AM

Released to Imaging: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 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: 860-6388.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-13347-1
Address: 13715 Rider Trail North,	Due Date Requested: 10/27/2021			
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:						
Cell19-114-5-3-4-211006 (860-13347-1)	10/6/21	08:52 Central		Solid			X	2	
Cell18-45-5-3-4-211006 (860-13347-2)	10/6/21	09:21 Central		Solid			X	2	
Cell18-8-5-3-4-211006 (860-13347-3)	10/6/21	10:10 Central		Solid			X	2	
Cell18-162-5-3-4-211006 (860-13347-4)	10/6/21	11:04 Central		Solid			X	2	
Cell18-76-5-3-4-211006 (860-13347-5)	10/6/21	10:38 Central		Solid			X	2	
Cell17-127-5-3-4-211006 (860-13347-6)	10/6/21	11:48 Central		Solid			X	2	
Cell17-23-5-3-4-211006 (860-13347-7)	10/6/21	12:41 Central		Solid			X	2	
Cell17-136-5-3-4-211006 (860-13347-8)	10/6/21	13:31 Central		Solid			X	2	
Cell17-119-5-3-4-211006 (860-13347-9)	10/6/21	13:07 Central		Solid			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco 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	10/8/21		FED EX		
2				[signature]	OCT 11 2021 0845	EA STL
3						

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

Ver: 06/08/2021

Released to Imaging: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 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: 860-6388.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-13347-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 10/27/2021			
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:						
Cell25-190-5-3-4-211006 (860-13347-10)	10/6/21	14:13 Central		Solid			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco 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: FED EX	Date/Time:	Company
Relinquished by: FED EX	Date/Time:	Company	Received by:	Date/Time: OCT 11 2021 0845	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: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 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: 860-6381.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-13347-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 10/26/2021			
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/ISM_DD_SI_SS (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell19-114-5-3-4-211006 (860-13347-1)	10/6/21	08:52 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell18-45-5-3-4-211006 (860-13347-2)	10/6/21	09:21 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell18-8-5-3-4-211006 (860-13347-3)	10/6/21	10:10 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell18-162-5-3-4-211006 (860-13347-4)	10/6/21	11:04 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell18-76-5-3-4-211006 (860-13347-5)	10/6/21	10:38 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell17-127-5-3-4-211006 (860-13347-6)	10/6/21	11:48 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell17-23-5-3-4-211006 (860-13347-7)	10/6/21	12:41 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell17-136-5-3-4-211006 (860-13347-8)	10/6/21	13:31 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell17-119-5-3-4-211006 (860-13347-9)	10/6/21	13:07 Central		Solid			X	X	X	4	, ism subsampling is not required.

Note: Since laboratory accreditations are subject to change, Eurofins Xenco 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco 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: 10/8/21	Company	Received by:	Date/Time: 10/09/2021 0920	Company EMDEN
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:	0.1, 1.9, 1.9 IR11 +1-0

Ver: 06/08/2021

Released to Imaging: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 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: 860-6381.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-13347-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 10/26/2021			
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/ISM_DD_SL_SS (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell25-190-5-3-4-211006 (860-13347-10)	10/6/21	14:13 Central		Solid			X	X	X	4	, ism subsampling is not required.

Note: Since laboratory accreditations are subject to change, Eurofins Xenco 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco 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: 10/8/21	Company	Received by:	Date/Time: 10/09/2021 0930	Company ETHDEN	
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: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 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: 860-6387.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-13347-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 10/27/2021			
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, 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:

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:						
Cell19-114-5-3-4-211006 (860-13347-1)	10/6/21	08:52 Central		Solid			X	1	
Cell18-45-5-3-4-211006 (860-13347-2)	10/6/21	09:21 Central		Solid			X	1	
Cell18-8-5-3-4-211006 (860-13347-3)	10/6/21	10:10 Central		Solid			X	1	
Cell18-162-5-3-4-211006 (860-13347-4)	10/6/21	11:04 Central		Solid			X	1	
Cell18-76-5-3-4-211006 (860-13347-5)	10/6/21	10:38 Central		Solid			X	1	
Cell17-127-5-3-4-211006 (860-13347-6)	10/6/21	11:48 Central		Solid			X	1	
Cell17-23-5-3-4-211006 (860-13347-7)	10/6/21	12:41 Central		Solid			X	1	
Cell17-136-5-3-4-211006 (860-13347-8)	10/6/21	13:31 Central		Solid			X	1	
Cell17-119-5-3-4-211006 (860-13347-9)	10/6/21	13:07 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco 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: Rascida	Date/Time: 10/8/21	Company	Received by: Kathy Raven	Date/Time: 10-9-21 9:06	Company FTA	
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~~ 0.5°C IR 8

Ver: 06/08/2021

Released to Imaging: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 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: 860-6387.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-13347-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 10/27/2021			
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:						
Cell25-190-5-3-4-211006 (860-13347-10)	10/6/21	14:13 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco 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: Kristy R Avey	Date/Time: 10-9-21 906	Company EEA
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: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 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: 860-6389.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Texas		Job #: 860-13347-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 10/26/2021			
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:							
Cell19-114-5-3-4-211006 (860-13347-1)	10/6/21	08:52 Central		Solid			X	X	1	
Cell18-45-5-3-4-211006 (860-13347-2)	10/6/21	09:21 Central		Solid			X	X	1	
Cell18-8-5-3-4-211006 (860-13347-3)	10/6/21	10:10 Central		Solid			X	X	1	
Cell18-162-5-3-4-211006 (860-13347-4)	10/6/21	11:04 Central		Solid			X	X	1	
Cell18-76-5-3-4-211006 (860-13347-5)	10/6/21	10:38 Central		Solid			X	X	1	
Cell17-127-5-3-4-211006 (860-13347-6)	10/6/21	11:48 Central		Solid			X	X	1	
Cell17-23-5-3-4-211006 (860-13347-7)	10/6/21	12:41 Central		Solid			X	X	1	
Cell17-136-5-3-4-211006 (860-13347-8)	10/6/21	13:31 Central		Solid			X	X	1	
Cell17-119-5-3-4-211006 (860-13347-9)	10/6/21	13:07 Central		Solid			X	X	1	

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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
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: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 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: 860-6389.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 2 of 2
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Texas		Job #: 860-13347-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 10/26/2021			
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)	8260B/5030B_Solid (MOD) mod	2540C/TX_7Day_T	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell25-190-5-3-4-211006 (860-13347-10)	10/6/21	14:13 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco 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: 10/8/21	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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-13347-1

Login Number: 13347 **List Source: Eurofins Xenco**
List Number: 1
Creator: Torrez, Lisandra

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.	True	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-13347-1

Login Number: 13347
List Number: 4
Creator: O'Hara, Jake F

List Source: Eurofins Denver
List Creation: 10/09/21 06:08 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	False	Not present
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").	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: 860-13347-1

Login Number: 13347 **List Source: Eurofins Pensacola**
List Number: 3 **List Creation: 10/09/21 01:16 PM**
Creator: Avery, Kathy R

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	0.5°C IR 8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: 860-13347-1

Login Number: 13347
List Number: 5
Creator: Mazariegos, Leonel A

List Source: Eurofins St. Louis
List Creation: 10/11/21 03:10 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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: 860-13347-1

Login Number: 13347
List Number: 2
Creator: Forrester, Caitlyn D

List Source: Eurofins Xenco
List Creation: 10/09/21 10:13 AM

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.	False	
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
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.	False	S6 & S7 received broken. Transferred to new containers with minimal sample loss.
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
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-13405-1
Client Project/Site: Chevron - Jal Land Farm Soils
Revision: 1

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

Attn: Alison Schaffer

Authorized for release by:
1/7/2022 4:17:02 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: 860-13405-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA

Qualifier	Qualifier Description
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
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
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
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
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.

General Chemistry

Qualifier	Qualifier Description
E	Result is greater then the UQL and the concentration is an estimated value.
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: 860-13405-1
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: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-13405-1

Laboratory: Eurofins Xenco

Narrative

Job Narrative
860-13405-1

The report was revised on 01/17/21 to correct the sample IDs per the COC.

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 11/15/2021. The report (revision 1) is being revised due to: ms msd linkage errors to be fixed.

Receipt
The samples were received on 10/9/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 0.3º C, 1.3º C, 2.3º C, 2.
C, 2.9º C, 3.6º C and 4.3º C.

GC/MS VOA
Method 8260B: The laboratory control sample duplicate (LCSD) for analytical batch 560-189869 recovered outside control limits the following analyte: acrolein. This analyte was biased high in the LCSD and was not detected in the associated sample; therefore, the data have been reported.

Method 8260D SIM: The matrix spike(MS) recoveries for preparation batch 860-26001 and analytical batch 860-27211 were out control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC/MS Semi VOA
Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 860-26116 and analytical batch 860-26121 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
Method 8015NM Prep: Due to the low density of the sample matrix, the initial volume(s) used for the following sample deviated from the standard procedure: Cell25-21-S-3-4-211007 (860-13405-1). The reporting limits (RLs) have been adjusted proportion

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

RAD
Method GA-01-R: Gamma Prep Batch 160-532013
Many 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 w made for this report:

Inferred from	Reported to Analyte
Th-234	Pa-234
Th-234	U-238
Pb-210	Po-210
Pb-210	Bi-210

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-13405-1 (Continued)

Laboratory: Eurofins Xenco (Continued)

Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

Any 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.

**The method blank (MB) Z-score is within limits and is located in the level IV raw data

Cell25-21-S-3-4-211007 (860-13405-1), Cell25-35-S-3-4-211007 (860-13405-2), Cell25-97-S-3-4-211007 (860-13405-3), Cell26-101-S-3-4-211007 (860-13405-4), Cell26-158-S-3-4-211007 (860-13405-5), Cell26-129-S-3-4-211007 (860-13405-6), Cell26-49-S-3-4-211007 (860-13405-7) and (860-13405-W-7-C DU)

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

Metals

Method 6020A: The method blank for preparation batch 860-26205 and analytical batch 860-26536 contained Manganese abov the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/c re-analysis of samples was not performed.

Method 6020A: The method blank for preparation batch 860-26205 and analytical batch 860-26725 contained Zinc above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-26205 and analytical batch 860-26725 were outside control limits. Sample matrix interference is suspected because the associated laboratory contro 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.

LCMS

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

General Chemistry

Method SM 2540C: The analysis volume selected for the following sample produced a base result greater than 200mg before calculation of the final result: Cell25-35-S-3-4-211007 (860-13405-2). Reanalysis could not be performed due to holding time

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-13405-1 (Continued)

Laboratory: Eurofins Xenco (Continued)

exceedance. The reference method specifies that no more than 200mg of weight be recovered for a chosen sample analysis volume in order to produce the best data precision. As such, these data have been qualified.

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

Geotechnical

Methods Increment, prep: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, the ISM subsampling portion of the SOP was omitted. Cell25-21-S-3-4-211007 (860-13405-1), Cell25-35-S-3-4-211007 (860-13405-2), Cell25-97-S-3-4-211007 (860-13405-3), Cell26-101-S-3-4-211007 (860-13405-4), Cell26-158-S-3-4-211007 (860-13405-5), Cell26-129-S-3-4-211007 (860-13405-6), Cell26-49-S-3-4-211007 (860-13405-7), (860-13405-S-1 MS), (860-13405-S-1 MSD), (860-13405-AJ-2 DU) and (860-13405-AJ-2 TRL) in preparation batch 280-553371 ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B.

Methods Increment, prep: The samples had fee water in the sample container when they were laid out to dry. Cell25-21-S-3-4-211007 (860-13405-1), Cell26-101-S-3-4-211007 (860-13405-4), (860-13405-S-1 MS) and (860-13405-S-1 MSI preparation batch 280-553371 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B.

Methods Increment, prep: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell26-101-S-3-4-211007 (860-13405-4), Cell26-158-S-3-4-211007 (860-13405-5 Cell26-129-S-3-4-211007 (860-13405-6) and Cell26-49-S-3-4-211007 (860-13405-7). This material was removed and not extrac The material removed is described in the aliquot spreadsheet. In preparation batch 280-553371 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B.

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

Organic Prep

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

VOA Prep

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

Detection Summary

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

Job ID: 860-13405-1

Client Sample ID: Cell25-21-S-3-4-211007 Lab Sample ID: 860-13405-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DDT	0.446	J	3.00	0.254	ug/Kg	1		8081B	Total/NA
Chloride	16.2		10.1	3.58	mg/Kg	1		9056A	Total/NA
Nitrate as N	1.84		1.01	0.109	mg/Kg	1		9056A	Total/NA
Fluoride	1.53	J	5.05	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.184	J b	1.01	0.0505	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	2.02		1.01	0.109	mg/Kg	1		9056A	Total/NA
Arsenic	2.74	J	3.77	0.582	mg/Kg	10		6020A	Total/NA
Barium	39.2		3.77	0.327	mg/Kg	10		6020A	Total/NA
Beryllium	0.405	J	1.89	0.175	mg/Kg	10		6020A	Total/NA
Chromium	12.3		3.77	0.256	mg/Kg	10		6020A	Total/NA
Copper	3.24	J	3.77	0.246	mg/Kg	10		6020A	Total/NA
Iron	8170		18.9	2.21	mg/Kg	10		6020A	Total/NA
Manganese	86.8	b	1.89	0.240	mg/Kg	10		6020A	Total/NA
Lead	4.76		1.89	0.183	mg/Kg	10		6020A	Total/NA
Antimony	0.208	J	1.89	0.112	mg/Kg	10		6020A	Total/NA
Uranium	0.261	J	0.943	0.0564	mg/Kg	10		6020A	Total/NA
Zinc	28.1	b	3.77	0.418	mg/Kg	10		6020A	Total/NA
Mercury	0.0116	J	0.0189	0.00363	mg/Kg	1		7471A	Total/NA
Cyanide, Total	39.1	J	60.0	29.8	ug/Kg	1		9012A	Total/NA
pH	8.2				SU	1		9045D	Soluble
Total Dissolved Solids	1030		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell25-35-S-3-4-211007 Lab Sample ID: 860-13405-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.00	J	10.2	3.60	mg/Kg	1		9056A	Total/NA
Nitrate as N	1.69		1.02	0.110	mg/Kg	1		9056A	Total/NA
Fluoride	2.59	J	5.08	1.02	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.227	J b	1.02	0.0508	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	1.92		1.02	0.110	mg/Kg	1		9056A	Total/NA
Sulfate	30.9		10.2	4.39	mg/Kg	1		9056A	Total/NA
Arsenic	3.14	J	3.85	0.593	mg/Kg	10		6020A	Total/NA
Barium	44.2		3.85	0.334	mg/Kg	10		6020A	Total/NA
Beryllium	0.434	J	1.92	0.178	mg/Kg	10		6020A	Total/NA
Chromium	8.08		3.85	0.261	mg/Kg	10		6020A	Total/NA
Copper	3.12	J	3.85	0.251	mg/Kg	10		6020A	Total/NA
Iron	7730		19.2	2.25	mg/Kg	10		6020A	Total/NA
Manganese	75.7	b	1.92	0.245	mg/Kg	10		6020A	Total/NA
Lead	5.14		1.92	0.186	mg/Kg	10		6020A	Total/NA
Antimony	0.206	J	1.92	0.114	mg/Kg	10		6020A	Total/NA
Uranium	0.245	J	0.962	0.0575	mg/Kg	10		6020A	Total/NA
Zinc	21.8	b	3.85	0.426	mg/Kg	10		6020A	Total/NA
Mercury	0.0152	J	0.0196	0.00377	mg/Kg	1		7471A	Total/NA
Cyanide, Total	47.5	J	60.3	29.9	ug/Kg	1		9012A	Total/NA
pH	8.0				SU	1		9045D	Soluble
Total Dissolved Solids	3580	E	10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell25-97-S-3-4-211007 Lab Sample ID: 860-13405-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	1.63		1.00	0.108	mg/Kg	1		9056A	Total/NA
Fluoride	1.24	J	5.01	1.00	mg/Kg	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco

Detection Summary

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

Job ID: 860-13405-1

Client Sample ID: Cell25-97-S-3-4-211007 (Continued) — Lab Sample ID: 860-13405-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrite as N	0.526	J b	1.00	0.0501	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	2.16		1.00	0.108	mg/Kg	1		9056A	Total/NA
Sulfate	26.8		10.0	4.33	mg/Kg	1		9056A	Total/NA
Arsenic	3.25	J	3.64	0.561	mg/Kg	10		6020A	Total/NA
Barium	44.2		3.64	0.315	mg/Kg	10		6020A	Total/NA
Beryllium	0.442	J	1.82	0.168	mg/Kg	10		6020A	Total/NA
Chromium	8.63		3.64	0.247	mg/Kg	10		6020A	Total/NA
Copper	3.17	J	3.64	0.237	mg/Kg	10		6020A	Total/NA
Iron	8030		18.2	2.13	mg/Kg	10		6020A	Total/NA
Manganese	76.1	b	1.82	0.231	mg/Kg	10		6020A	Total/NA
Lead	4.77		1.82	0.176	mg/Kg	10		6020A	Total/NA
Antimony	0.214	J	1.82	0.108	mg/Kg	10		6020A	Total/NA
Uranium	0.171	J	0.909	0.0543	mg/Kg	10		6020A	Total/NA
Zinc	31.4	b	3.64	0.402	mg/Kg	10		6020A	Total/NA
Mercury	0.0130	J	0.0189	0.00363	mg/Kg	1		7471A	Total/NA
Cyanide, Total	44.3	J	60.2	29.8	ug/Kg	1		9012A	Total/NA
pH	8.4				SU	1		9045D	Soluble
Total Dissolved Solids	198		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell26-101-S-3-4-211007 — Lab Sample ID: 860-13405-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	2.28		1.00	0.108	mg/Kg	1		9056A	Total/NA
Fluoride	1.98	J	5.00	1.00	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.535	J b	1.00	0.0500	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	2.82		1.00	0.108	mg/Kg	1		9056A	Total/NA
Sulfate	43.8		10.0	4.32	mg/Kg	1		9056A	Total/NA
Arsenic	1.87	J	3.70	0.571	mg/Kg	10		6020A	Total/NA
Barium	203		3.70	0.321	mg/Kg	10		6020A	Total/NA
Beryllium	0.216	J	1.85	0.171	mg/Kg	10		6020A	Total/NA
Cadmium	0.134	J	1.85	0.107	mg/Kg	10		6020A	Total/NA
Chromium	3.24	J	3.70	0.251	mg/Kg	10		6020A	Total/NA
Copper	2.31	J	3.70	0.242	mg/Kg	10		6020A	Total/NA
Iron	2890		18.5	2.17	mg/Kg	10		6020A	Total/NA
Manganese	40.8	b	1.85	0.236	mg/Kg	10		6020A	Total/NA
Lead	2.28		1.85	0.179	mg/Kg	10		6020A	Total/NA
Antimony	0.131	J	1.85	0.110	mg/Kg	10		6020A	Total/NA
Uranium	0.283	J	0.926	0.0554	mg/Kg	10		6020A	Total/NA
Zinc	10.1	b	3.70	0.410	mg/Kg	10		6020A	Total/NA
Mercury	0.0111	J	0.0189	0.00363	mg/Kg	1		7471A	Total/NA
Cyanide, Total	159		59.9	29.7	ug/Kg	1		9012A	Total/NA
pH	9.0	HF			SU	1		9045D	Soluble
Total Dissolved Solids	172		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell26-158-S-3-4-211007 — Lab Sample ID: 860-13405-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.35	J	9.84	3.48	mg/Kg	1		9056A	Total/NA
Nitrate as N	7.21		0.984	0.106	mg/Kg	1		9056A	Total/NA
Fluoride	4.51	J	4.92	0.984	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.399	J b	0.984	0.0492	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	7.61		0.984	0.106	mg/Kg	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco

Detection Summary

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

Job ID: 860-13405-1

Client Sample ID: Cell26-158-S-3-4-211007 (Continued) Lab Sample ID: 860-13405-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	59.8		9.84	4.25	mg/Kg	1		9056A	Total/NA
Perchlorate	0.0982	J	0.491	0.0809	ug/Kg	1		6860	Total/NA
Arsenic	1.94	J	3.57	0.551	mg/Kg	10		6020A	Total/NA
Barium	164		3.57	0.310	mg/Kg	10		6020A	Total/NA
Chromium	1.66	J	3.57	0.242	mg/Kg	10		6020A	Total/NA
Copper	0.984	J	3.57	0.233	mg/Kg	10		6020A	Total/NA
Iron	1450		17.9	2.09	mg/Kg	10		6020A	Total/NA
Manganese	40.9	b	1.79	0.227	mg/Kg	10		6020A	Total/NA
Lead	1.43	J	1.79	0.173	mg/Kg	10		6020A	Total/NA
Antimony	0.118	J	1.79	0.106	mg/Kg	10		6020A	Total/NA
Uranium	0.357	J	0.893	0.0534	mg/Kg	10		6020A	Total/NA
Zinc	10.8	b	3.57	0.395	mg/Kg	10		6020A	Total/NA
Mercury	0.00745	J	0.0182	0.00349	mg/Kg	1		7471A	Total/NA
Cyanide, Total	109		60.2	29.9	ug/Kg	1		9012A	Total/NA
pH	8.9	HF			SU	1		9045D	Soluble
Total Dissolved Solids	157		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell26-129-S-3-4-211007 Lab Sample ID: 860-13405-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.96	J	9.86	3.49	mg/Kg	1		9056A	Total/NA
Nitrate as N	7.86		0.986	0.107	mg/Kg	1		9056A	Total/NA
Fluoride	6.39		4.93	0.986	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.492	J b	0.986	0.0493	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	8.35		0.986	0.107	mg/Kg	1		9056A	Total/NA
Sulfate	83.3		9.86	4.26	mg/Kg	1		9056A	Total/NA
Arsenic	1.42	J	3.77	0.582	mg/Kg	10		6020A	Total/NA
Barium	75.5		3.77	0.327	mg/Kg	10		6020A	Total/NA
Cadmium	0.231	J	1.89	0.109	mg/Kg	10		6020A	Total/NA
Chromium	2.64	J	3.77	0.256	mg/Kg	10		6020A	Total/NA
Copper	2.65	J	3.77	0.246	mg/Kg	10		6020A	Total/NA
Iron	2450		18.9	2.21	mg/Kg	10		6020A	Total/NA
Manganese	39.5	b	1.89	0.240	mg/Kg	10		6020A	Total/NA
Lead	6.08		1.89	0.183	mg/Kg	10		6020A	Total/NA
Antimony	0.149	J	1.89	0.112	mg/Kg	10		6020A	Total/NA
Uranium	0.251	J	0.943	0.0564	mg/Kg	10		6020A	Total/NA
Zinc	777	b	3.77	0.418	mg/Kg	10		6020A	Total/NA
Mercury	0.0107	J	0.0185	0.00356	mg/Kg	1		7471A	Total/NA
Cyanide, Total	31.5	J	60.1	29.8	ug/Kg	1		9012A	Total/NA
pH	8.8	HF			SU	1		9045D	Soluble
Total Dissolved Solids	128		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell26-49-S-3-4-211007 Lab Sample ID: 860-13405-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.84	J	10.0	3.54	mg/Kg	1		9056A	Total/NA
Nitrate as N	7.23		1.00	0.108	mg/Kg	1		9056A	Total/NA
Fluoride	3.86	J	5.00	1.00	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.395	J b	1.00	0.0500	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	7.63		1.00	0.108	mg/Kg	1		9056A	Total/NA
Sulfate	37.9		10.0	4.32	mg/Kg	1		9056A	Total/NA
Perchlorate	0.197	J	0.462	0.0762	ug/Kg	1		6860	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco

Detection Summary

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

Job ID: 860-13405-1

Client Sample ID: Cell26-49-S-3-4-211007 (Continued) Lab Sample ID: 860-13405-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.01	J	3.51	0.541	mg/Kg	10		6020A	Total/NA
Barium	255		3.51	0.304	mg/Kg	10		6020A	Total/NA
Chromium	1.78	J	3.51	0.238	mg/Kg	10		6020A	Total/NA
Copper	1.14	J	3.51	0.229	mg/Kg	10		6020A	Total/NA
Iron	1590		17.5	2.06	mg/Kg	10		6020A	Total/NA
Manganese	15.5	b	1.75	0.223	mg/Kg	10		6020A	Total/NA
Lead	1.16	J	1.75	0.170	mg/Kg	10		6020A	Total/NA
Uranium	0.438	J	0.877	0.0524	mg/Kg	10		6020A	Total/NA
Zinc	7.55	b	3.51	0.388	mg/Kg	10		6020A	Total/NA
Mercury	0.0130	J	0.0189	0.00363	mg/Kg	1		7471A	Total/NA
Cyanide, Total	33.5	J	59.9	29.7	ug/Kg	1		9012A	Total/NA
pH	9.0	HF			SU	1		9045D	Soluble
Total Dissolved Solids	129		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell25-21-S-3-4-211007

Date Collected: 10/07/21 08:48
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-1

Matrix: Solid

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			10/14/21 14:54	1
Chloromethane	1.18	U	4.91	1.18	ug/Kg			10/14/21 14:54	1
Vinyl chloride	0.589	U	4.91	0.589	ug/Kg			10/14/21 14:54	1
Bromomethane	1.08	U	4.91	1.08	ug/Kg			10/14/21 14:54	1
Trichlorofluoromethane	0.491	U	4.91	0.491	ug/Kg			10/14/21 14:54	1
Acrolein	8.45	U *	49.1	8.45	ug/Kg			10/14/21 14:54	1
1,1-Dichloroethene	0.491	U	4.91	0.491	ug/Kg			10/14/21 14:54	1
trans-1,2-Dichloroethene	0.491	U	4.91	0.491	ug/Kg			10/14/21 14:54	1
Methyl tert-butyl ether	0.599	U	4.91	0.599	ug/Kg			10/14/21 14:54	1
1,3-Dichlorobenzene	0.305	U	4.91	0.305	ug/Kg			10/14/21 14:54	1
Methylene Chloride	4.91	U	24.6	4.91	ug/Kg			10/14/21 14:54	1
Acrylonitrile	3.54	U	49.1	3.54	ug/Kg			10/14/21 14:54	1
cis-1,2-Dichloroethene	0.560	U	4.91	0.560	ug/Kg			10/14/21 14:54	1
Carbon tetrachloride	0.501	U	4.91	0.501	ug/Kg			10/14/21 14:54	1
Benzene	0.619	U	4.91	0.619	ug/Kg			10/14/21 14:54	1
1,2-Dichloroethane	0.511	U	4.91	0.511	ug/Kg			10/14/21 14:54	1
Trichloroethene	0.275	U	4.91	0.275	ug/Kg			10/14/21 14:54	1
1,1,1-Trichloroethane	0.491	U	4.91	0.491	ug/Kg			10/14/21 14:54	1
1,1-Dichloroethane	0.580	U	4.91	0.580	ug/Kg			10/14/21 14:54	1
1,2-Dichloropropane	0.491	U	4.91	0.491	ug/Kg			10/14/21 14:54	1
1,4-Dioxane	18.7	U	98.2	18.7	ug/Kg			10/14/21 14:54	1
Chloroform	0.855	U	4.91	0.855	ug/Kg			10/14/21 14:54	1
Bromodichloromethane	0.196	U	4.91	0.196	ug/Kg			10/14/21 14:54	1
1,1-Dichloropropene	0.511	U	4.91	0.511	ug/Kg			10/14/21 14:54	1
cis-1,3-Dichloropropene	0.442	U	4.91	0.442	ug/Kg			10/14/21 14:54	1
Toluene	0.884	U	4.91	0.884	ug/Kg			10/14/21 14:54	1
trans-1,3-Dichloropropene	0.511	U	4.91	0.511	ug/Kg			10/14/21 14:54	1
1,1,2-Trichloroethane	0.491	U	4.91	0.491	ug/Kg			10/14/21 14:54	1
Tetrachloroethene	0.727	U	4.91	0.727	ug/Kg			10/14/21 14:54	1
1,3-Dichloropropene, Total	0.511	U	4.91	0.511	ug/Kg			10/14/21 14:54	1
1,2-Dibromoethane	0.295	U	4.91	0.295	ug/Kg			10/14/21 14:54	1
Monochlorobenzene	0.295	U	4.91	0.295	ug/Kg			10/14/21 14:54	1
Ethylbenzene	0.442	U	4.91	0.442	ug/Kg			10/14/21 14:54	1
Xylenes, Total	0.491	U	9.82	0.491	ug/Kg			10/14/21 14:54	1
Styrene	0.295	U	4.91	0.295	ug/Kg			10/14/21 14:54	1
Tribromomethane	0.501	U	4.91	0.501	ug/Kg			10/14/21 14:54	1
1,1,2,2-Tetrachloroethane	0.373	U	4.91	0.373	ug/Kg			10/14/21 14:54	1
1,4-Dichlorobenzene	0.314	U	4.91	0.314	ug/Kg			10/14/21 14:54	1
1,2-Dichlorobenzene	0.246	U	4.91	0.246	ug/Kg			10/14/21 14:54	1
1,2,4-Trichlorobenzene	0.953	U	4.91	0.953	ug/Kg			10/14/21 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*65 - 152*		*10/14/21 14:54*	*1*
Toluene-d8 (Surr)	*98*		*65 - 139*		*10/14/21 14:54*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 136*		*10/14/21 14:54*	*1*
4-Bromofluorobenzene (Surr)	*98*		*61 - 142*		*10/14/21 14:54*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.8	U	64.7	11.8	ug/Kg		10/21/21 07:41	10/23/21 10:01	1

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Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell25-21-S-3-4-211007

Date Collected: 10/07/21 08:48
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-1

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*109*		*30 - 164*	*10/21/21 07:41*	*10/23/21 10:01*	*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		10/13/21 07:18	10/13/21 22:48	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		10/13/21 07:18	10/13/21 22:48	1

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell25-21-S-3-4-211007

Date Collected: 10/07/21 08:48
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-1

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/13/21 07:18	10/13/21 22:48	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/13/21 07:18	10/13/21 22:48	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/13/21 07:18	10/13/21 22:48	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*	*10/13/21 07:18*	*10/13/21 22:48*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*30 - 115*	*10/13/21 07:18*	*10/13/21 22:48*	*1*
2-Fluorophenol	*82*		*25 - 121*	*10/13/21 07:18*	*10/13/21 22:48*	*1*
2,4,6-Tribromophenol	*73*		*19 - 122*	*10/13/21 07:18*	*10/13/21 22:48*	*1*
Nitrobenzene-d5	*83*		*23 - 129*	*10/13/21 07:18*	*10/13/21 22:48*	*1*
Phenol-d5 (Surr)	*82*		*24 - 113*	*10/13/21 07:18*	*10/13/21 22:48*	*1*
p-Terphenyl-d14 (Surr)	*83*		*18 - 137*	*10/13/21 07:18*	*10/13/21 22:48*	*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	27.4	U	64.9	27.4	mg/Kg		10/14/21 12:07	10/15/21 04:47	1
Diesel Range Organics (Over C10-C28)	27.4	U	64.9	27.4	mg/Kg		10/14/21 12:07	10/15/21 04:47	1
Oil Range Organics (Over C28-C36)	27.4	U	64.9	27.4	mg/Kg		10/14/21 12:07	10/15/21 04:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*107*		*65 - 130*	*10/14/21 12:07*	*10/15/21 04:47*	*1*
1-Chlorooctane	*99*		*65 - 130*	*10/14/21 12:07*	*10/15/21 04:47*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	**0.446**	**J**	3.00	0.254	ug/Kg		10/12/21 08:39	10/18/21 17:24	1
Aldrin	0.362	U	3.00	0.362	ug/Kg		10/12/21 08:39	10/18/21 17:24	1
Hexachlorocyclohexane, alpha-	0.679	U	3.00	0.679	ug/Kg		10/12/21 08:39	10/18/21 17:24	1
Hexachlorocyclohexane, beta-	0.473	U	3.00	0.473	ug/Kg		10/12/21 08:39	10/18/21 17:24	1
Chlordane (technical)	23.9	U	82.9	23.9	ug/Kg		10/12/21 08:39	10/18/21 17:24	1
Hexachlorocyclohexane, delta-	0.832	U	3.00	0.832	ug/Kg		10/12/21 08:39	10/18/21 17:24	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/12/21 08:39	10/18/21 17:24	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/12/21 08:39	10/18/21 17:24	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/12/21 08:39	10/18/21 17:24	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/12/21 08:39	10/18/21 17:24	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/12/21 08:39	10/18/21 17:24	1
Endrin aldehyde	0.247	U	3.00	0.247	ug/Kg		10/12/21 08:39	10/18/21 17:24	1
Hexachlorocyclohexane, gamma-	0.438	U	3.00	0.438	ug/Kg		10/12/21 08:39	10/18/21 17:24	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/12/21 08:39	10/18/21 17:24	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/12/21 08:39	10/18/21 17:24	1
Toxaphene	11.3	U	82.9	11.3	ug/Kg		10/12/21 08:39	10/18/21 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*35 - 135*	*10/12/21 08:39*	*10/18/21 17:24*	*1*

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell25-21-S-3-4-211007

Date Collected: 10/07/21 08:48
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-1

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	92		25 - 143	10/12/21 08:39	10/18/21 17:24	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	0.0934	0.0212	mg/Kg		10/19/21 16:26	10/20/21 20:50	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0401	U	0.187	0.0401	mg/Kg		10/19/21 16:26	10/20/21 20:50	1
2,4,6-Trinitrotoluene	0.0287	U	0.0934	0.0287	mg/Kg		10/19/21 16:26	10/20/21 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	106		83 - 122	10/19/21 16:26	10/20/21 20:50	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.2**		10.1	3.58	mg/Kg		10/23/21 09:07	10/24/21 14:28	1
Nitrate as N	**1.84**		1.01	0.109	mg/Kg		10/23/21 09:07	10/24/21 14:28	1
Fluoride	**1.53**	**J**	5.05	1.01	mg/Kg		10/23/21 09:07	10/24/21 14:28	1
Nitrite as N	**0.184**	**J b**	1.01	0.0505	mg/Kg		10/23/21 09:07	10/24/21 14:28	1
Nitrate Nitrite as N	**2.02**		1.01	0.109	mg/Kg		10/23/21 09:07	10/24/21 14:28	1
Sulfate	4.36	U	10.1	4.36	mg/Kg		10/23/21 09:07	10/24/21 14:28	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	0.480	0.0792	ug/Kg		10/15/21 15:58	10/19/21 14:29	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.224	U	0.777	0.224	ug/Kg		10/14/21 17:30	10/18/21 08:18	1
Perfluorohexanesulfonic acid (PFHxS)	0.272	U	0.777	0.272	ug/Kg		10/14/21 17:30	10/18/21 08:18	1
Perfluorooctanesulfonic acid (PFOS)	0.136	U	0.777	0.136	ug/Kg		10/14/21 17:30	10/18/21 08:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	100		57 - 153	10/14/21 17:30	10/18/21 08:18	1
13C8 PFOS	104		70 - 130	10/14/21 17:30	10/18/21 08:18	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		10/12/21 11:40	10/13/21 22:14	10
Arsenic	**2.74**	**J**	3.77	0.582	mg/Kg		10/12/21 11:40	10/13/21 22:14	10
Barium	**39.2**		3.77	0.327	mg/Kg		10/12/21 11:40	10/13/21 22:14	10
Beryllium	**0.405**	**J**	1.89	0.175	mg/Kg		10/12/21 11:40	10/13/21 22:14	10
Cadmium	0.109	U	1.89	0.109	mg/Kg		10/12/21 11:40	10/13/21 22:14	10
Chromium	**12.3**		3.77	0.256	mg/Kg		10/12/21 11:40	10/13/21 22:14	10
Copper	**3.24**	**J**	3.77	0.246	mg/Kg		10/12/21 11:40	10/13/21 22:14	10
Iron	**8170**		18.9	2.21	mg/Kg		10/12/21 11:40	10/13/21 22:14	10
Manganese	**86.8**	**b**	1.89	0.240	mg/Kg		10/12/21 11:40	10/13/21 22:14	10
Lead	**4.76**		1.89	0.183	mg/Kg		10/12/21 11:40	10/13/21 22:14	10
Antimony	**0.208**	**J**	1.89	0.112	mg/Kg		10/12/21 11:40	10/13/21 22:14	10
Selenium	0.468	U	1.89	0.468	mg/Kg		10/12/21 11:40	10/13/21 22:14	10
Thallium	0.225	U	1.89	0.225	mg/Kg		10/12/21 11:40	10/13/21 22:14	10
Uranium	**0.261**	**J**	0.943	0.0564	mg/Kg		10/12/21 11:40	10/13/21 22:14	10

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-21-S-3-4-211007 Lab Sample ID: 860-13405-1
Date Collected: 10/07/21 08:48 **Matrix: Solid**
Date Received: 10/09/21 10:00

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**28.1**	**b**	3.77	0.418	mg/Kg		10/12/21 11:40	10/14/21 18:44	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0116**	**J**	0.0189	0.00363	mg/Kg		10/13/21 09:45	10/13/21 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**39.1**	**J**	60.0	29.8	ug/Kg		10/21/21 11:00	10/21/21 16:37	1
Phenols, Total	0.0578	U	0.0963	0.0578	mg/Kg		10/21/21 08:30	10/22/21 11:46	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.2**				SU			10/14/21 14:34	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1030**		10.0	10.0	mg/L			10/21/21 15:00	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	0.212	U	0.0930	0.0956	1.00	0.230	pCi/g	10/15/21 12:56	11/08/21 18:46	1
Radium-228	**0.629**		0.240	0.249		0.201	pCi/g	10/15/21 12:56	11/08/21 18:46	1
Combined Radium 226 + 228	**0.841**		0.257	0.267		0.230	pCi/g	10/15/21 12:56	11/08/21 18:46	1

Client Sample ID: Cell25-21-S-3-4-211007 Lab Sample ID: 860-13405-1
Date Collected: 10/07/21 08:48 **Matrix: Solid**
Date Received: 10/09/21 10:00 **Percent Solids: 72.2**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00348	U	0.00696	0.00348	mg/Kg	☼	10/11/21 11:34	10/19/21 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*63 - 144*	*10/11/21 11:34*	*10/19/21 21:11*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00547	U	0.0231	0.00547	mg/Kg	☼	10/12/21 08:39	10/13/21 15:59	1
Aroclor 1221	0.00547	U	0.0231	0.00547	mg/Kg	☼	10/12/21 08:39	10/13/21 15:59	1
Aroclor 1232	0.00547	U	0.0231	0.00547	mg/Kg	☼	10/12/21 08:39	10/13/21 15:59	1
Aroclor 1242	0.00547	U	0.0231	0.00547	mg/Kg	☼	10/12/21 08:39	10/13/21 15:59	1
Aroclor 1248	0.00547	U	0.0231	0.00547	mg/Kg	☼	10/12/21 08:39	10/13/21 15:59	1
Aroclor 1254	0.00360	U	0.0231	0.00360	mg/Kg	☼	10/12/21 08:39	10/13/21 15:59	1
Aroclor 1260	0.00360	U	0.0231	0.00360	mg/Kg	☼	10/12/21 08:39	10/13/21 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*35 - 140*	*10/12/21 08:39*	*10/13/21 15:59*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*37 - 142*	*10/12/21 08:39*	*10/13/21 15:59*	*1*

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell25-35-S-3-4-211007

Date Collected: 10/07/21 09:08
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-2

Matrix: Solid

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			10/13/21 17:36	1
Chloromethane	1.18	U	4.90	1.18	ug/Kg			10/13/21 17:36	1
Vinyl chloride	0.588	U	4.90	0.588	ug/Kg			10/13/21 17:36	1
Bromomethane	1.08	U	4.90	1.08	ug/Kg			10/13/21 17:36	1
Trichlorofluoromethane	0.490	U	4.90	0.490	ug/Kg			10/13/21 17:36	1
Acrolein	8.43	U	49.0	8.43	ug/Kg			10/13/21 17:36	1
1,1-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			10/13/21 17:36	1
trans-1,2-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			10/13/21 17:36	1
Methyl tert-butyl ether	0.598	U	4.90	0.598	ug/Kg			10/13/21 17:36	1
1,3-Dichlorobenzene	0.304	U	4.90	0.304	ug/Kg			10/13/21 17:36	1
Methylene Chloride	4.90	U	24.5	4.90	ug/Kg			10/13/21 17:36	1
Acrylonitrile	3.53	U	49.0	3.53	ug/Kg			10/13/21 17:36	1
cis-1,2-Dichloroethene	0.559	U	4.90	0.559	ug/Kg			10/13/21 17:36	1
Carbon tetrachloride	0.500	U	4.90	0.500	ug/Kg			10/13/21 17:36	1
Benzene	0.618	U	4.90	0.618	ug/Kg			10/13/21 17:36	1
1,2-Dichloroethane	0.510	U	4.90	0.510	ug/Kg			10/13/21 17:36	1
Trichloroethene	0.275	U	4.90	0.275	ug/Kg			10/13/21 17:36	1
1,1,1-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			10/13/21 17:36	1
1,1-Dichloroethane	0.578	U	4.90	0.578	ug/Kg			10/13/21 17:36	1
1,2-Dichloropropane	0.490	U	4.90	0.490	ug/Kg			10/13/21 17:36	1
1,4-Dioxane	18.6	U	98.0	18.6	ug/Kg			10/13/21 17:36	1
Chloroform	0.853	U	4.90	0.853	ug/Kg			10/13/21 17:36	1
Bromodichloromethane	0.196	U	4.90	0.196	ug/Kg			10/13/21 17:36	1
1,1-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			10/13/21 17:36	1
cis-1,3-Dichloropropene	0.441	U	4.90	0.441	ug/Kg			10/13/21 17:36	1
Toluene	0.882	U	4.90	0.882	ug/Kg			10/13/21 17:36	1
trans-1,3-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			10/13/21 17:36	1
1,1,2-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			10/13/21 17:36	1
Tetrachloroethene	0.725	U	4.90	0.725	ug/Kg			10/13/21 17:36	1
1,3-Dichloropropene, Total	0.510	U	4.90	0.510	ug/Kg			10/13/21 17:36	1
1,2-Dibromoethane	0.294	U	4.90	0.294	ug/Kg			10/13/21 17:36	1
Monochlorobenzene	0.294	U	4.90	0.294	ug/Kg			10/13/21 17:36	1
Ethylbenzene	0.441	U	4.90	0.441	ug/Kg			10/13/21 17:36	1
Xylenes, Total	0.490	U	9.80	0.490	ug/Kg			10/13/21 17:36	1
Styrene	0.294	U	4.90	0.294	ug/Kg			10/13/21 17:36	1
Tribromomethane	0.500	U	4.90	0.500	ug/Kg			10/13/21 17:36	1
1,1,2,2-Tetrachloroethane	0.373	U	4.90	0.373	ug/Kg			10/13/21 17:36	1
1,4-Dichlorobenzene	0.314	U	4.90	0.314	ug/Kg			10/13/21 17:36	1
1,2-Dichlorobenzene	0.245	U	4.90	0.245	ug/Kg			10/13/21 17:36	1
1,2,4-Trichlorobenzene	0.951	U	4.90	0.951	ug/Kg			10/13/21 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 152*		*10/13/21 17:36*	*1*
Toluene-d8 (Surr)	*99*		*65 - 139*		*10/13/21 17:36*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 136*		*10/13/21 17:36*	*1*
4-Bromofluorobenzene (Surr)	*98*		*61 - 142*		*10/13/21 17:36*	*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		10/21/21 07:41	10/23/21 10:27	1

Eurofins Xenco

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell25-35-S-3-4-211007

Date Collected: 10/07/21 09:08
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-2

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*127*		*30 - 164*	*10/21/21 07:41*	*10/23/21 10:27*	*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		10/13/21 07:18	10/14/21 16:22	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/13/21 07:18	10/14/21 16:22	1

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell25-35-S-3-4-211007

Date Collected: 10/07/21 09:08
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-2

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzidine	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		10/13/21 07:18	10/14/21 16:22	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/13/21 07:18	10/14/21 16:22	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/13/21 07:18	10/14/21 16:22	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*	*10/13/21 07:18*	*10/14/21 16:22*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*30 - 115*	*10/13/21 07:18*	*10/14/21 16:22*	*1*
2-Fluorophenol	*82*		*25 - 121*	*10/13/21 07:18*	*10/14/21 16:22*	*1*
2,4,6-Tribromophenol	*64*		*19 - 122*	*10/13/21 07:18*	*10/14/21 16:22*	*1*
Nitrobenzene-d5	*77*		*23 - 129*	*10/13/21 07:18*	*10/14/21 16:22*	*1*
Phenol-d5 (Surr)	*78*		*24 - 113*	*10/13/21 07:18*	*10/14/21 16:22*	*1*
p-Terphenyl-d14 (Surr)	*85*		*18 - 137*	*10/13/21 07:18*	*10/14/21 16:22*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/13/21 07:18	10/14/21 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*30 - 115*	*10/13/21 07:18*	*10/14/21 19:00*	*1*
2-Fluorophenol	*86*		*25 - 121*	*10/13/21 07:18*	*10/14/21 19:00*	*1*
2,4,6-Tribromophenol	*87*		*19 - 122*	*10/13/21 07:18*	*10/14/21 19:00*	*1*
Nitrobenzene-d5	*84*		*23 - 129*	*10/13/21 07:18*	*10/14/21 19:00*	*1*
Phenol-d5 (Surr)	*88*		*24 - 113*	*10/13/21 07:18*	*10/14/21 19:00*	*1*
p-Terphenyl-d14 (Surr)	*81*		*18 - 137*	*10/13/21 07:18*	*10/14/21 19:00*	*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	21.3	U	50.4	21.3	mg/Kg		10/14/21 12:07	10/15/21 05:04	1
Diesel Range Organics (Over C10-C28)	21.3	U	50.4	21.3	mg/Kg		10/14/21 12:07	10/15/21 05:04	1
Oil Range Organics (Over C28-C36)	21.3	U	50.4	21.3	mg/Kg		10/14/21 12:07	10/15/21 05:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*110*		*65 - 130*	*10/14/21 12:07*	*10/15/21 05:04*	*1*
1-Chlorooctane	*103*		*65 - 130*	*10/14/21 12:07*	*10/15/21 05:04*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	3.00	0.253	ug/Kg		10/12/21 08:39	10/18/21 17:38	1
Aldrin	0.362	U	3.00	0.362	ug/Kg		10/12/21 08:39	10/18/21 17:38	1
Hexachlorocyclohexane, alpha-	0.679	U	3.00	0.679	ug/Kg		10/12/21 08:39	10/18/21 17:38	1
Hexachlorocyclohexane, beta-	0.473	U	3.00	0.473	ug/Kg		10/12/21 08:39	10/18/21 17:38	1
Chlordane (technical)	23.9	U	82.9	23.9	ug/Kg		10/12/21 08:39	10/18/21 17:38	1
Hexachlorocyclohexane, delta-	0.832	U	3.00	0.832	ug/Kg		10/12/21 08:39	10/18/21 17:38	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/12/21 08:39	10/18/21 17:38	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/12/21 08:39	10/18/21 17:38	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/12/21 08:39	10/18/21 17:38	1

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell25-35-S-3-4-211007

Date Collected: 10/07/21 09:08
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-2

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	0.275	U	3.00	0.275	ug/Kg		10/12/21 08:39	10/18/21 17:38	1
Endrin	0.290	U	3.00	0.290	ug/Kg		10/12/21 08:39	10/18/21 17:38	1
Endrin aldehyde	0.247	U	3.00	0.247	ug/Kg		10/12/21 08:39	10/18/21 17:38	1
Hexachlorocyclohexane, gamma-	0.438	U	3.00	0.438	ug/Kg		10/12/21 08:39	10/18/21 17:38	1
Heptachlor	0.561	U	3.00	0.561	ug/Kg		10/12/21 08:39	10/18/21 17:38	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/12/21 08:39	10/18/21 17:38	1
Toxaphene	11.3	U	82.9	11.3	ug/Kg		10/12/21 08:39	10/18/21 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*35 - 135*	*10/12/21 08:39*	*10/18/21 17:38*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*25 - 143*	*10/12/21 08:39*	*10/18/21 17:38*	*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	0.0942	0.0214	mg/Kg		10/19/21 16:26	10/20/21 21:59	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0405	U	0.188	0.0405	mg/Kg		10/19/21 16:26	10/20/21 21:59	1
2,4,6-Trinitrotoluene	0.0289	U	0.0942	0.0289	mg/Kg		10/19/21 16:26	10/20/21 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*102*		*83 - 122*	*10/19/21 16:26*	*10/20/21 21:59*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.00**	**J**	10.2	3.60	mg/Kg		10/23/21 09:07	10/24/21 14:59	1
Nitrate as N	**1.69**		1.02	0.110	mg/Kg		10/23/21 09:07	10/24/21 14:59	1
Fluoride	**2.59**	**J**	5.08	1.02	mg/Kg		10/23/21 09:07	10/24/21 14:59	1
Nitrite as N	**0.227**	**J b**	1.02	0.0508	mg/Kg		10/23/21 09:07	10/24/21 14:59	1
Nitrate Nitrite as N	**1.92**		1.02	0.110	mg/Kg		10/23/21 09:07	10/24/21 14:59	1
Sulfate	**30.9**		10.2	4.39	mg/Kg		10/23/21 09:07	10/24/21 14:59	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	0.469	0.0774	ug/Kg		10/15/21 15:58	10/19/21 14:35	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	0.765	0.220	ug/Kg		10/14/21 17:30	10/18/21 08:26	1
Perfluorohexanesulfonic acid (PFHxS)	0.268	U	0.765	0.268	ug/Kg		10/14/21 17:30	10/18/21 08:26	1
Perfluorooctanesulfonic acid (PFOS)	0.134	U	0.765	0.134	ug/Kg		10/14/21 17:30	10/18/21 08:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*102*		*57 - 153*	*10/14/21 17:30*	*10/18/21 08:26*	*1*
13C8 PFOS	*95*		*70 - 130*	*10/14/21 17:30*	*10/18/21 08:26*	*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		10/12/21 11:40	10/13/21 22:17	10
Arsenic	**3.14**	**J**	3.85	0.593	mg/Kg		10/12/21 11:40	10/13/21 22:17	10
Barium	**44.2**		3.85	0.334	mg/Kg		10/12/21 11:40	10/13/21 22:17	10
Beryllium	**0.434**	**J**	1.92	0.178	mg/Kg		10/12/21 11:40	10/13/21 22:17	10
Cadmium	0.112	U	1.92	0.112	mg/Kg		10/12/21 11:40	10/13/21 22:17	10

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-35-S-3-4-211007 Lab Sample ID: 860-13405-2
Date Collected: 10/07/21 09:08 **Matrix: Solid**
Date Received: 10/09/21 10:00

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	8.08		3.85	0.261	mg/Kg		10/12/21 11:40	10/13/21 22:17	10
Copper	3.12	J	3.85	0.251	mg/Kg		10/12/21 11:40	10/13/21 22:17	10
Iron	7730		19.2	2.25	mg/Kg		10/12/21 11:40	10/13/21 22:17	10
Manganese	75.7	b	1.92	0.245	mg/Kg		10/12/21 11:40	10/13/21 22:17	10
Lead	5.14		1.92	0.186	mg/Kg		10/12/21 11:40	10/13/21 22:17	10
Antimony	0.206	J	1.92	0.114	mg/Kg		10/12/21 11:40	10/13/21 22:17	10
Selenium	0.477	U	1.92	0.477	mg/Kg		10/12/21 11:40	10/13/21 22:17	10
Thallium	0.230	U	1.92	0.230	mg/Kg		10/12/21 11:40	10/13/21 22:17	10
Uranium	0.245	J	0.962	0.0575	mg/Kg		10/12/21 11:40	10/13/21 22:17	10
Zinc	21.8	b	3.85	0.426	mg/Kg		10/12/21 11:40	10/14/21 18:47	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0152	J	0.0196	0.00377	mg/Kg		10/13/21 09:45	10/13/21 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	47.5	J	60.3	29.9	ug/Kg		10/21/21 11:00	10/21/21 16:38	1
Phenols, Total	0.0588	U	0.0980	0.0588	mg/Kg		10/21/21 08:30	10/22/21 11:49	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0				SU			10/14/21 14:34	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3580	E	10.0	10.0	mg/L			10/21/21 15:00	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	0.639		0.178	0.190	1.00	0.142	pCi/g	10/15/21 12:56	11/08/21 18:37	1
Radium-228	0.808		0.344	0.354		0.501	pCi/g	10/15/21 12:56	11/08/21 18:37	1
Combined Radium 226 + 228	1.45		0.387	0.402		0.501	pCi/g	10/15/21 12:56	11/08/21 18:37	1

Client Sample ID: Cell25-35-S-3-4-211007 Lab Sample ID: 860-13405-2
Date Collected: 10/07/21 09:08 **Matrix: Solid**
Date Received: 10/09/21 10:00 **Percent Solids: 88.0**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00282	U	0.00565	0.00282	mg/Kg	☼	10/11/21 11:38	10/19/21 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*	*10/11/21 11:38*	*10/19/21 21:28*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00449	U	0.0189	0.00449	mg/Kg	☼	10/12/21 08:39	10/13/21 16:09	1
Aroclor 1221	0.00449	U	0.0189	0.00449	mg/Kg	☼	10/12/21 08:39	10/13/21 16:09	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-35-S-3-4-211007 Lab Sample ID: 860-13405-2

Date Collected: 10/07/21 09:08 **Matrix: Solid**
Date Received: 10/09/21 10:00 **Percent Solids: 88.0**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1232	0.00449	U	0.0189	0.00449	mg/Kg	☼	10/12/21 08:39	10/13/21 16:09	1
Aroclor 1242	0.00449	U	0.0189	0.00449	mg/Kg	☼	10/12/21 08:39	10/13/21 16:09	1
Aroclor 1248	0.00449	U	0.0189	0.00449	mg/Kg	☼	10/12/21 08:39	10/13/21 16:09	1
Aroclor 1254	0.00296	U	0.0189	0.00296	mg/Kg	☼	10/12/21 08:39	10/13/21 16:09	1
Aroclor 1260	0.00296	U	0.0189	0.00296	mg/Kg	☼	10/12/21 08:39	10/13/21 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*35 - 140*	*10/12/21 08:39*	*10/13/21 16:09*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*37 - 142*	*10/12/21 08:39*	*10/13/21 16:09*	*1*

Client Sample ID: Cell25-97-S-3-4-211007 Lab Sample ID: 860-13405-3

Date Collected: 10/07/21 09:36 **Matrix: Solid**
Date Received: 10/09/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.694	U	4.75	0.694	ug/Kg			10/13/21 18:02	1
Chloromethane	1.14	U	4.75	1.14	ug/Kg			10/13/21 18:02	1
Vinyl chloride	0.570	U	4.75	0.570	ug/Kg			10/13/21 18:02	1
Bromomethane	1.05	U	4.75	1.05	ug/Kg			10/13/21 18:02	1
Trichlorofluoromethane	0.475	U	4.75	0.475	ug/Kg			10/13/21 18:02	1
Acrolein	8.17	U	47.5	8.17	ug/Kg			10/13/21 18:02	1
1,1-Dichloroethene	0.475	U	4.75	0.475	ug/Kg			10/13/21 18:02	1
trans-1,2-Dichloroethene	0.475	U	4.75	0.475	ug/Kg			10/13/21 18:02	1
Methyl tert-butyl ether	0.580	U	4.75	0.580	ug/Kg			10/13/21 18:02	1
1,3-Dichlorobenzene	0.295	U	4.75	0.295	ug/Kg			10/13/21 18:02	1
Methylene Chloride	4.75	U	23.8	4.75	ug/Kg			10/13/21 18:02	1
Acrylonitrile	3.42	U	47.5	3.42	ug/Kg			10/13/21 18:02	1
cis-1,2-Dichloroethene	0.542	U	4.75	0.542	ug/Kg			10/13/21 18:02	1
Carbon tetrachloride	0.485	U	4.75	0.485	ug/Kg			10/13/21 18:02	1
Benzene	0.599	U	4.75	0.599	ug/Kg			10/13/21 18:02	1
1,2-Dichloroethane	0.494	U	4.75	0.494	ug/Kg			10/13/21 18:02	1
Trichloroethene	0.266	U	4.75	0.266	ug/Kg			10/13/21 18:02	1
1,1,1-Trichloroethane	0.475	U	4.75	0.475	ug/Kg			10/13/21 18:02	1
1,1-Dichloroethane	0.561	U	4.75	0.561	ug/Kg			10/13/21 18:02	1
1,2-Dichloropropane	0.475	U	4.75	0.475	ug/Kg			10/13/21 18:02	1
1,4-Dioxane	18.1	U	95.1	18.1	ug/Kg			10/13/21 18:02	1
Chloroform	0.827	U	4.75	0.827	ug/Kg			10/13/21 18:02	1
Bromodichloromethane	0.190	U	4.75	0.190	ug/Kg			10/13/21 18:02	1
1,1-Dichloropropene	0.494	U	4.75	0.494	ug/Kg			10/13/21 18:02	1
cis-1,3-Dichloropropene	0.428	U	4.75	0.428	ug/Kg			10/13/21 18:02	1
Toluene	0.856	U	4.75	0.856	ug/Kg			10/13/21 18:02	1
trans-1,3-Dichloropropene	0.494	U	4.75	0.494	ug/Kg			10/13/21 18:02	1
1,1,2-Trichloroethane	0.475	U	4.75	0.475	ug/Kg			10/13/21 18:02	1
Tetrachloroethene	0.703	U	4.75	0.703	ug/Kg			10/13/21 18:02	1
1,3-Dichloropropene, Total	0.494	U	4.75	0.494	ug/Kg			10/13/21 18:02	1
1,2-Dibromoethane	0.285	U	4.75	0.285	ug/Kg			10/13/21 18:02	1
Monochlorobenzene	0.285	U	4.75	0.285	ug/Kg			10/13/21 18:02	1
Ethylbenzene	0.428	U	4.75	0.428	ug/Kg			10/13/21 18:02	1
Xylenes, Total	0.475	U	9.51	0.475	ug/Kg			10/13/21 18:02	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-97-S-3-4-211007 Lab Sample ID: 860-13405-3

Date Collected: 10/07/21 09:36 **Matrix: Solid**
Date Received: 10/09/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.285	U	4.75	0.285	ug/Kg			10/13/21 18:02	1
Tribromomethane	0.485	U	4.75	0.485	ug/Kg			10/13/21 18:02	1
1,1,2,2-Tetrachloroethane	0.361	U	4.75	0.361	ug/Kg			10/13/21 18:02	1
1,4-Dichlorobenzene	0.304	U	4.75	0.304	ug/Kg			10/13/21 18:02	1
1,2-Dichlorobenzene	0.238	U	4.75	0.238	ug/Kg			10/13/21 18:02	1
1,2,4-Trichlorobenzene	0.922	U	4.75	0.922	ug/Kg			10/13/21 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*65 - 152*		*10/13/21 18:02*	*1*
Toluene-d8 (Surr)	*98*		*65 - 139*		*10/13/21 18:02*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 136*		*10/13/21 18:02*	*1*
4-Bromofluorobenzene (Surr)	*97*		*61 - 142*		*10/13/21 18:02*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.8	U	64.7	11.8	ug/Kg		10/21/21 07:41	10/23/21 10:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*109*		*30 - 164*	*10/21/21 07:41*	*10/23/21 10:53*	*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		10/13/21 07:18	10/14/21 16:45	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/14/21 16:45	1

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell25-97-S-3-4-211007

Date Collected: 10/07/21 09:36
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-3

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/13/21 07:18	10/14/21 16:45	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/13/21 07:18	10/14/21 16:45	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/13/21 07:18	10/14/21 16:45	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*	*10/13/21 07:18*	*10/14/21 16:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*30 - 115*	*10/13/21 07:18*	*10/14/21 16:45*	*1*
2-Fluorophenol	*78*		*25 - 121*	*10/13/21 07:18*	*10/14/21 16:45*	*1*
2,4,6-Tribromophenol	*59*		*19 - 122*	*10/13/21 07:18*	*10/14/21 16:45*	*1*
Nitrobenzene-d5	*73*		*23 - 129*	*10/13/21 07:18*	*10/14/21 16:45*	*1*
Phenol-d5 (Surr)	*73*		*24 - 113*	*10/13/21 07:18*	*10/14/21 16:45*	*1*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*	*10/13/21 07:18*	*10/14/21 16:45*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/13/21 07:18	10/14/21 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*30 - 115*	*10/13/21 07:18*	*10/14/21 19:20*	*1*
2-Fluorophenol	*81*		*25 - 121*	*10/13/21 07:18*	*10/14/21 19:20*	*1*
2,4,6-Tribromophenol	*79*		*19 - 122*	*10/13/21 07:18*	*10/14/21 19:20*	*1*
Nitrobenzene-d5	*80*		*23 - 129*	*10/13/21 07:18*	*10/14/21 19:20*	*1*
Phenol-d5 (Surr)	*83*		*24 - 113*	*10/13/21 07:18*	*10/14/21 19:20*	*1*
p-Terphenyl-d14 (Surr)	*77*		*18 - 137*	*10/13/21 07:18*	*10/14/21 19:20*	*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	21.6	U	51.3	21.6	mg/Kg		10/14/21 12:07	10/15/21 05:23	1

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell25-97-S-3-4-211007

Date Collected: 10/07/21 09:36
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-3

Matrix: Solid

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)	21.6	U	51.3	21.6	mg/Kg		10/14/21 12:07	10/15/21 05:23	1
Oil Range Organics (Over C28-C36)	21.6	U	51.3	21.6	mg/Kg		10/14/21 12:07	10/15/21 05:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*107*		*65 - 130*	*10/14/21 12:07*	*10/15/21 05:23*	*1*
1-Chlorooctane	*98*		*65 - 130*	*10/14/21 12:07*	*10/15/21 05:23*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	3.00	0.254	ug/Kg		10/12/21 08:39	10/18/21 17:52	1
Aldrin	0.363	U	3.00	0.363	ug/Kg		10/12/21 08:39	10/18/21 17:52	1
Hexachlorocyclohexane, alpha-	0.680	U	3.00	0.680	ug/Kg		10/12/21 08:39	10/18/21 17:52	1
Hexachlorocyclohexane, beta-	0.474	U	3.00	0.474	ug/Kg		10/12/21 08:39	10/18/21 17:52	1
Chlordane (technical)	23.9	U	83.0	23.9	ug/Kg		10/12/21 08:39	10/18/21 17:52	1
Hexachlorocyclohexane, delta-	0.833	U	3.00	0.833	ug/Kg		10/12/21 08:39	10/18/21 17:52	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/12/21 08:39	10/18/21 17:52	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/12/21 08:39	10/18/21 17:52	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/12/21 08:39	10/18/21 17:52	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/12/21 08:39	10/18/21 17:52	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/12/21 08:39	10/18/21 17:52	1
Endrin aldehyde	0.247	U	3.00	0.247	ug/Kg		10/12/21 08:39	10/18/21 17:52	1
Hexachlorocyclohexane, gamma-	0.439	U	3.00	0.439	ug/Kg		10/12/21 08:39	10/18/21 17:52	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/12/21 08:39	10/18/21 17:52	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/12/21 08:39	10/18/21 17:52	1
Toxaphene	11.3	U	83.0	11.3	ug/Kg		10/12/21 08:39	10/18/21 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*35 - 135*	*10/12/21 08:39*	*10/18/21 17:52*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*25 - 143*	*10/12/21 08:39*	*10/18/21 17:52*	*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	0.0975	0.0221	mg/Kg		10/19/21 16:26	10/20/21 23:08	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0419	U	0.195	0.0419	mg/Kg		10/19/21 16:26	10/20/21 23:08	1
2,4,6-Trinitrotoluene	0.0299	U	0.0975	0.0299	mg/Kg		10/19/21 16:26	10/20/21 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*103*		*83 - 122*	*10/19/21 16:26*	*10/20/21 23:08*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.55	U	10.0	3.55	mg/Kg		10/23/21 09:07	10/24/21 15:10	1
Nitrate as N	**1.63**		1.00	0.108	mg/Kg		10/23/21 09:07	10/24/21 15:10	1
Fluoride	**1.24**	**J**	5.01	1.00	mg/Kg		10/23/21 09:07	10/24/21 15:10	1
Nitrite as N	**0.526**	**J b**	1.00	0.0501	mg/Kg		10/23/21 09:07	10/24/21 15:10	1
Nitrate Nitrite as N	**2.16**		1.00	0.108	mg/Kg		10/23/21 09:07	10/24/21 15:10	1
Sulfate	**26.8**		10.0	4.33	mg/Kg		10/23/21 09:07	10/24/21 15:10	1

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell25-97-S-3-4-211007

Date Collected: 10/07/21 09:36
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-3

Matrix: Solid

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		10/15/21 15:58	10/19/21 14:40	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	0.776	0.223	ug/Kg		10/14/21 17:30	10/18/21 08:35	1
Perfluorohexanesulfonic acid (PFHxS)	0.272	U	0.776	0.272	ug/Kg		10/14/21 17:30	10/18/21 08:35	1
Perfluorooctanesulfonic acid (PFOS)	0.136	U	0.776	0.136	ug/Kg		10/14/21 17:30	10/18/21 08:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*101*		*57 - 153*	*10/14/21 17:30*	*10/18/21 08:35*	*1*
13C8 PFOS	*102*		*70 - 130*	*10/14/21 17:30*	*10/18/21 08:35*	*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		10/12/21 11:40	10/13/21 22:20	10
Arsenic	**3.25**	**J**	3.64	0.561	mg/Kg		10/12/21 11:40	10/13/21 22:20	10
Barium	**44.2**		3.64	0.315	mg/Kg		10/12/21 11:40	10/13/21 22:20	10
Beryllium	**0.442**	**J**	1.82	0.168	mg/Kg		10/12/21 11:40	10/13/21 22:20	10
Cadmium	0.105	U	1.82	0.105	mg/Kg		10/12/21 11:40	10/13/21 22:20	10
Chromium	**8.63**		3.64	0.247	mg/Kg		10/12/21 11:40	10/13/21 22:20	10
Copper	**3.17**	**J**	3.64	0.237	mg/Kg		10/12/21 11:40	10/13/21 22:20	10
Iron	**8030**		18.2	2.13	mg/Kg		10/12/21 11:40	10/13/21 22:20	10
Manganese	**76.1**	**b**	1.82	0.231	mg/Kg		10/12/21 11:40	10/13/21 22:20	10
Lead	**4.77**		1.82	0.176	mg/Kg		10/12/21 11:40	10/13/21 22:20	10
Antimony	**0.214**	**J**	1.82	0.108	mg/Kg		10/12/21 11:40	10/13/21 22:20	10
Selenium	0.451	U	1.82	0.451	mg/Kg		10/12/21 11:40	10/13/21 22:20	10
Thallium	0.217	U	1.82	0.217	mg/Kg		10/12/21 11:40	10/13/21 22:20	10
Uranium	**0.171**	**J**	0.909	0.0543	mg/Kg		10/12/21 11:40	10/13/21 22:20	10
Zinc	**31.4**	**b**	3.64	0.402	mg/Kg		10/12/21 11:40	10/14/21 18:51	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0130**	**J**	0.0189	0.00363	mg/Kg		10/13/21 09:45	10/13/21 13:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**44.3**	**J**	60.2	29.8	ug/Kg		10/21/21 11:00	10/21/21 16:39	1
Phenols, Total	0.0600	U	0.0999	0.0600	mg/Kg		10/21/21 08:30	10/22/21 12:50	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.4**				SU			10/14/21 14:34	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**198**		10.0	10.0	mg/L			10/21/21 15:00	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-97-S-3-4-211007 Lab Sample ID: 860-13405-3

Date Collected: 10/07/21 09:36 **Matrix: Solid**
Date Received: 10/09/21 10:00

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	0.550		0.136	0.148	1.00	0.117	pCi/g	10/15/21 12:56	11/08/21 18:39	1
Radium-228	0.415		0.166	0.172		0.339	pCi/g	10/15/21 12:56	11/08/21 18:39	1
Combined Radium 226 + 228	0.965		0.215	0.227		0.339	pCi/g	10/15/21 12:56	11/08/21 18:39	1

Client Sample ID: Cell25-97-S-3-4-211007 Lab Sample ID: 860-13405-3

Date Collected: 10/07/21 09:36 **Matrix: Solid**
Date Received: 10/09/21 10:00 **Percent Solids: 85.9**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00288	U	0.00576	0.00288	mg/Kg	☼	10/11/21 11:38	10/19/21 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*	*10/11/21 11:38*	*10/19/21 21:45*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00460	U	0.0194	0.00460	mg/Kg	☼	10/12/21 08:39	10/13/21 16:18	1
Aroclor 1221	0.00460	U	0.0194	0.00460	mg/Kg	☼	10/12/21 08:39	10/13/21 16:18	1
Aroclor 1232	0.00460	U	0.0194	0.00460	mg/Kg	☼	10/12/21 08:39	10/13/21 16:18	1
Aroclor 1242	0.00460	U	0.0194	0.00460	mg/Kg	☼	10/12/21 08:39	10/13/21 16:18	1
Aroclor 1248	0.00460	U	0.0194	0.00460	mg/Kg	☼	10/12/21 08:39	10/13/21 16:18	1
Aroclor 1254	0.00303	U	0.0194	0.00303	mg/Kg	☼	10/12/21 08:39	10/13/21 16:18	1
Aroclor 1260	0.00303	U	0.0194	0.00303	mg/Kg	☼	10/12/21 08:39	10/13/21 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*35 - 140*	*10/12/21 08:39*	*10/13/21 16:18*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*37 - 142*	*10/12/21 08:39*	*10/13/21 16:18*	*1*

Client Sample ID: Cell26-101-S-3-4-211007 Lab Sample ID: 860-13405-4

Date Collected: 10/07/21 10:25 **Matrix: Solid**
Date Received: 10/09/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.677	U	4.64	0.677	ug/Kg			10/13/21 18:27	1
Chloromethane	1.11	U	4.64	1.11	ug/Kg			10/13/21 18:27	1
Vinyl chloride	0.557	U	4.64	0.557	ug/Kg			10/13/21 18:27	1
Bromomethane	1.02	U	4.64	1.02	ug/Kg			10/13/21 18:27	1
Trichlorofluoromethane	0.464	U	4.64	0.464	ug/Kg			10/13/21 18:27	1
Acrolein	7.98	U	46.4	7.98	ug/Kg			10/13/21 18:27	1
1,1-Dichloroethene	0.464	U	4.64	0.464	ug/Kg			10/13/21 18:27	1
trans-1,2-Dichloroethene	0.464	U	4.64	0.464	ug/Kg			10/13/21 18:27	1
Methyl tert-butyl ether	0.566	U	4.64	0.566	ug/Kg			10/13/21 18:27	1
1,3-Dichlorobenzene	0.288	U	4.64	0.288	ug/Kg			10/13/21 18:27	1
Methylene Chloride	4.64	U	23.2	4.64	ug/Kg			10/13/21 18:27	1
Acrylonitrile	3.34	U	46.4	3.34	ug/Kg			10/13/21 18:27	1
cis-1,2-Dichloroethene	0.529	U	4.64	0.529	ug/Kg			10/13/21 18:27	1

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell26-101-S-3-4-211007

Date Collected: 10/07/21 10:25
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.473	U	4.64	0.473	ug/Kg			10/13/21 18:27	1
Benzene	0.584	U	4.64	0.584	ug/Kg			10/13/21 18:27	1
1,2-Dichloroethane	0.482	U	4.64	0.482	ug/Kg			10/13/21 18:27	1
Trichloroethene	0.260	U	4.64	0.260	ug/Kg			10/13/21 18:27	1
1,1,1-Trichloroethane	0.464	U	4.64	0.464	ug/Kg			10/13/21 18:27	1
1,1-Dichloroethane	0.547	U	4.64	0.547	ug/Kg			10/13/21 18:27	1
1,2-Dichloropropane	0.464	U	4.64	0.464	ug/Kg			10/13/21 18:27	1
1,4-Dioxane	17.6	U	92.8	17.6	ug/Kg			10/13/21 18:27	1
Chloroform	0.807	U	4.64	0.807	ug/Kg			10/13/21 18:27	1
Bromodichloromethane	0.186	U	4.64	0.186	ug/Kg			10/13/21 18:27	1
1,1-Dichloropropene	0.482	U	4.64	0.482	ug/Kg			10/13/21 18:27	1
cis-1,3-Dichloropropene	0.417	U	4.64	0.417	ug/Kg			10/13/21 18:27	1
Toluene	0.835	U	4.64	0.835	ug/Kg			10/13/21 18:27	1
trans-1,3-Dichloropropene	0.482	U	4.64	0.482	ug/Kg			10/13/21 18:27	1
1,1,2-Trichloroethane	0.464	U	4.64	0.464	ug/Kg			10/13/21 18:27	1
Tetrachloroethene	0.686	U	4.64	0.686	ug/Kg			10/13/21 18:27	1
1,3-Dichloropropene, Total	0.482	U	4.64	0.482	ug/Kg			10/13/21 18:27	1
1,2-Dibromoethane	0.278	U	4.64	0.278	ug/Kg			10/13/21 18:27	1
Monochlorobenzene	0.278	U	4.64	0.278	ug/Kg			10/13/21 18:27	1
Ethylbenzene	0.417	U	4.64	0.417	ug/Kg			10/13/21 18:27	1
Xylenes, Total	0.464	U	9.28	0.464	ug/Kg			10/13/21 18:27	1
Styrene	0.278	U	4.64	0.278	ug/Kg			10/13/21 18:27	1
Tribromomethane	0.473	U	4.64	0.473	ug/Kg			10/13/21 18:27	1
1,1,2,2-Tetrachloroethane	0.353	U	4.64	0.353	ug/Kg			10/13/21 18:27	1
1,4-Dichlorobenzene	0.297	U	4.64	0.297	ug/Kg			10/13/21 18:27	1
1,2-Dichlorobenzene	0.232	U	4.64	0.232	ug/Kg			10/13/21 18:27	1
1,2,4-Trichlorobenzene	0.900	U	4.64	0.900	ug/Kg			10/13/21 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 152*		*10/13/21 18:27*	*1*
Toluene-d8 (Surr)	*97*		*65 - 139*		*10/13/21 18:27*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 136*		*10/13/21 18:27*	*1*
4-Bromofluorobenzene (Surr)	*97*		*61 - 142*		*10/13/21 18:27*	*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		10/21/21 07:41	10/25/21 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*111*		*30 - 164*	*10/21/21 07:41*	*10/25/21 21:11*	*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		10/13/21 07:51	10/14/21 15:11	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/13/21 07:51	10/14/21 15:11	1

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell26-101-S-3-4-211007
Date Collected: 10/07/21 10:25
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-4
Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		10/13/21 07:51	10/14/21 15:11	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/13/21 07:51	10/14/21 15:11	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/13/21 07:51	10/14/21 15:11	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.666*	*U*	*mg/Kg*			*542-88-1*	*10/13/21 07:51*	*10/14/21 15:11*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*30 - 115*	*10/13/21 07:51*	*10/14/21 15:11*	*1*
2-Fluorophenol	*81*		*25 - 121*	*10/13/21 07:51*	*10/14/21 15:11*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-101-S-3-4-211007 Lab Sample ID: 860-13405-4

Date Collected: 10/07/21 10:25 **Matrix: Solid**
Date Received: 10/09/21 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	62		19 - 122	10/13/21 07:51	10/14/21 15:11	1
Nitrobenzene-d5	75		23 - 129	10/13/21 07:51	10/14/21 15:11	1
Phenol-d5 (Surr)	75		24 - 113	10/13/21 07:51	10/14/21 15:11	1
p-Terphenyl-d14 (Surr)	85		18 - 137	10/13/21 07:51	10/14/21 15:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/13/21 07:51	10/14/21 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		30 - 115	10/13/21 07:51	10/14/21 17:58	1
2-Fluorophenol	86		25 - 121	10/13/21 07:51	10/14/21 17:58	1
2,4,6-Tribromophenol	85		19 - 122	10/13/21 07:51	10/14/21 17:58	1
Nitrobenzene-d5	82		23 - 129	10/13/21 07:51	10/14/21 17:58	1
Phenol-d5 (Surr)	87		24 - 113	10/13/21 07:51	10/14/21 17:58	1
p-Terphenyl-d14 (Surr)	82		18 - 137	10/13/21 07:51	10/14/21 17:58	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		10/14/21 12:07	10/15/21 05:41	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		10/14/21 12:07	10/15/21 05:41	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		10/14/21 12:07	10/15/21 05:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	101		65 - 130	10/14/21 12:07	10/15/21 05:41	1
1-Chlorooctane	91		65 - 130	10/14/21 12:07	10/15/21 05:41	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	3.00	0.254	ug/Kg		10/12/21 08:39	10/18/21 18:06	1
Aldrin	0.363	U	3.00	0.363	ug/Kg		10/12/21 08:39	10/18/21 18:06	1
Hexachlorocyclohexane, alpha-	0.680	U	3.00	0.680	ug/Kg		10/12/21 08:39	10/18/21 18:06	1
Hexachlorocyclohexane, beta-	0.473	U	3.00	0.473	ug/Kg		10/12/21 08:39	10/18/21 18:06	1
Chlordane (technical)	23.9	U	82.9	23.9	ug/Kg		10/12/21 08:39	10/18/21 18:06	1
Hexachlorocyclohexane, delta-	0.833	U	3.00	0.833	ug/Kg		10/12/21 08:39	10/18/21 18:06	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/12/21 08:39	10/18/21 18:06	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/12/21 08:39	10/18/21 18:06	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/12/21 08:39	10/18/21 18:06	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/12/21 08:39	10/18/21 18:06	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/12/21 08:39	10/18/21 18:06	1
Endrin aldehyde	0.247	U	3.00	0.247	ug/Kg		10/12/21 08:39	10/18/21 18:06	1
Hexachlorocyclohexane, gamma-	0.438	U	3.00	0.438	ug/Kg		10/12/21 08:39	10/18/21 18:06	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/12/21 08:39	10/18/21 18:06	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/12/21 08:39	10/18/21 18:06	1
Toxaphene	11.3	U	82.9	11.3	ug/Kg		10/12/21 08:39	10/18/21 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		35 - 135	10/12/21 08:39	10/18/21 18:06	1
DCB Decachlorobiphenyl (Surr)	88		25 - 143	10/12/21 08:39	10/18/21 18:06	1

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell26-101-S-3-4-211007

Date Collected: 10/07/21 10:25
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-4

Matrix: Solid

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		10/19/21 16:26	10/20/21 23:31	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0424	U	0.197	0.0424	mg/Kg		10/19/21 16:26	10/20/21 23:31	1
2,4,6-Trinitrotoluene	0.0303	U	0.0986	0.0303	mg/Kg		10/19/21 16:26	10/20/21 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*102*		*83 - 122*	*10/19/21 16:26*	*10/20/21 23:31*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		10/23/21 09:07	10/24/21 15:20	1
Nitrate as N	**2.28**		1.00	0.108	mg/Kg		10/23/21 09:07	10/24/21 15:20	1
Fluoride	**1.98**	**J**	5.00	1.00	mg/Kg		10/23/21 09:07	10/24/21 15:20	1
Nitrite as N	**0.535**	**J b**	1.00	0.0500	mg/Kg		10/23/21 09:07	10/24/21 15:20	1
Nitrate Nitrite as N	**2.82**		1.00	0.108	mg/Kg		10/23/21 09:07	10/24/21 15:20	1
Sulfate	**43.8**		10.0	4.32	mg/Kg		10/23/21 09:07	10/24/21 15:20	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0767	U	0.466	0.0767	ug/Kg		10/15/21 15:58	10/19/21 14:45	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.221	U	0.770	0.221	ug/Kg		10/14/21 17:30	10/18/21 08:44	1
Perfluorohexanesulfonic acid (PFHxS)	0.269	U	0.770	0.269	ug/Kg		10/14/21 17:30	10/18/21 08:44	1
Perfluorooctanesulfonic acid (PFOS)	0.135	U	0.770	0.135	ug/Kg		10/14/21 17:30	10/18/21 08:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*99*		*57 - 153*	*10/14/21 17:30*	*10/18/21 08:44*	*1*
13C8 PFOS	*100*		*70 - 130*	*10/14/21 17:30*	*10/18/21 08:44*	*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		10/12/21 11:40	10/13/21 22:23	10
Arsenic	**1.87**	**J**	3.70	0.571	mg/Kg		10/12/21 11:40	10/13/21 22:23	10
Barium	**203**		3.70	0.321	mg/Kg		10/12/21 11:40	10/13/21 22:23	10
Beryllium	**0.216**	**J**	1.85	0.171	mg/Kg		10/12/21 11:40	10/13/21 22:23	10
Cadmium	**0.134**	**J**	1.85	0.107	mg/Kg		10/12/21 11:40	10/13/21 22:23	10
Chromium	**3.24**	**J**	3.70	0.251	mg/Kg		10/12/21 11:40	10/13/21 22:23	10
Copper	**2.31**	**J**	3.70	0.242	mg/Kg		10/12/21 11:40	10/13/21 22:23	10
Iron	**2890**		18.5	2.17	mg/Kg		10/12/21 11:40	10/13/21 22:23	10
Manganese	**40.8**	**b**	1.85	0.236	mg/Kg		10/12/21 11:40	10/13/21 22:23	10
Lead	**2.28**		1.85	0.179	mg/Kg		10/12/21 11:40	10/13/21 22:23	10
Antimony	**0.131**	**J**	1.85	0.110	mg/Kg		10/12/21 11:40	10/13/21 22:23	10
Selenium	0.459	U	1.85	0.459	mg/Kg		10/12/21 11:40	10/13/21 22:23	10
Thallium	0.221	U	1.85	0.221	mg/Kg		10/12/21 11:40	10/13/21 22:23	10
Uranium	**0.283**	**J**	0.926	0.0554	mg/Kg		10/12/21 11:40	10/13/21 22:23	10
Zinc	**10.1**	**b**	3.70	0.410	mg/Kg		10/12/21 11:40	10/14/21 18:54	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-101-S-3-4-211007 Lab Sample ID: 860-13405-4
Date Collected: 10/07/21 10:25 **Matrix: Solid**
Date Received: 10/09/21 10:00

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0111	J	0.0189	0.00363	mg/Kg		10/13/21 09:45	10/13/21 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	159		59.9	29.7	ug/Kg		10/21/21 11:00	10/21/21 16:44	1
Phenols, Total	0.0598	U	0.0996	0.0598	mg/Kg		10/21/21 08:30	10/22/21 12:13	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.0	HF			SU			10/21/21 13:54	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	172		10.0	10.0	mg/L			10/23/21 15:40	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	0.445		0.128	0.136	1.00	0.0803	pCi/g	10/15/21 12:56	11/08/21 18:42	1
Radium-228	0.338		0.141	0.145		0.108	pCi/g	10/15/21 12:56	11/08/21 18:42	1
Combined Radium 226 + 228	0.782		0.190	0.199		0.108	pCi/g	10/15/21 12:56	11/08/21 18:42	1

Client Sample ID: Cell26-101-S-3-4-211007 Lab Sample ID: 860-13405-4
Date Collected: 10/07/21 10:25 **Matrix: Solid**
Date Received: 10/09/21 10:00 **Percent Solids: 91.5**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00276	U	0.00551	0.00276	mg/Kg	☼	10/11/21 11:38	10/19/21 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*	*10/11/21 11:38*	*10/19/21 22:02*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00432	U	0.0182	0.00432	mg/Kg	☼	10/12/21 08:39	10/13/21 16:28	1
Aroclor 1221	0.00432	U	0.0182	0.00432	mg/Kg	☼	10/12/21 08:39	10/13/21 16:28	1
Aroclor 1232	0.00432	U	0.0182	0.00432	mg/Kg	☼	10/12/21 08:39	10/13/21 16:28	1
Aroclor 1242	0.00432	U	0.0182	0.00432	mg/Kg	☼	10/12/21 08:39	10/13/21 16:28	1
Aroclor 1248	0.00432	U	0.0182	0.00432	mg/Kg	☼	10/12/21 08:39	10/13/21 16:28	1
Aroclor 1254	0.00285	U	0.0182	0.00285	mg/Kg	☼	10/12/21 08:39	10/13/21 16:28	1
Aroclor 1260	0.00285	U	0.0182	0.00285	mg/Kg	☼	10/12/21 08:39	10/13/21 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*35 - 140*	*10/12/21 08:39*	*10/13/21 16:28*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 142*	*10/12/21 08:39*	*10/13/21 16:28*	*1*

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell26-158-S-3-4-211007

Date Collected: 10/07/21 10:55
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-5

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.698	U	4.78	0.698	ug/Kg			10/13/21 18:52	1
Chloromethane	1.15	U	4.78	1.15	ug/Kg			10/13/21 18:52	1
Vinyl chloride	0.574	U	4.78	0.574	ug/Kg			10/13/21 18:52	1
Bromomethane	1.05	U	4.78	1.05	ug/Kg			10/13/21 18:52	1
Trichlorofluoromethane	0.478	U	4.78	0.478	ug/Kg			10/13/21 18:52	1
Acrolein	8.22	U	47.8	8.22	ug/Kg			10/13/21 18:52	1
1,1-Dichloroethene	0.478	U	4.78	0.478	ug/Kg			10/13/21 18:52	1
trans-1,2-Dichloroethene	0.478	U	4.78	0.478	ug/Kg			10/13/21 18:52	1
Methyl tert-butyl ether	0.583	U	4.78	0.583	ug/Kg			10/13/21 18:52	1
1,3-Dichlorobenzene	0.296	U	4.78	0.296	ug/Kg			10/13/21 18:52	1
Methylene Chloride	4.78	U	23.9	4.78	ug/Kg			10/13/21 18:52	1
Acrylonitrile	3.44	U	47.8	3.44	ug/Kg			10/13/21 18:52	1
cis-1,2-Dichloroethene	0.545	U	4.78	0.545	ug/Kg			10/13/21 18:52	1
Carbon tetrachloride	0.488	U	4.78	0.488	ug/Kg			10/13/21 18:52	1
Benzene	0.602	U	4.78	0.602	ug/Kg			10/13/21 18:52	1
1,2-Dichloroethane	0.497	U	4.78	0.497	ug/Kg			10/13/21 18:52	1
Trichloroethene	0.268	U	4.78	0.268	ug/Kg			10/13/21 18:52	1
1,1,1-Trichloroethane	0.478	U	4.78	0.478	ug/Kg			10/13/21 18:52	1
1,1-Dichloroethane	0.564	U	4.78	0.564	ug/Kg			10/13/21 18:52	1
1,2-Dichloropropane	0.478	U	4.78	0.478	ug/Kg			10/13/21 18:52	1
1,4-Dioxane	18.2	U	95.6	18.2	ug/Kg			10/13/21 18:52	1
Chloroform	0.832	U	4.78	0.832	ug/Kg			10/13/21 18:52	1
Bromodichloromethane	0.191	U	4.78	0.191	ug/Kg			10/13/21 18:52	1
1,1-Dichloropropene	0.497	U	4.78	0.497	ug/Kg			10/13/21 18:52	1
cis-1,3-Dichloropropene	0.430	U	4.78	0.430	ug/Kg			10/13/21 18:52	1
Toluene	0.860	U	4.78	0.860	ug/Kg			10/13/21 18:52	1
trans-1,3-Dichloropropene	0.497	U	4.78	0.497	ug/Kg			10/13/21 18:52	1
1,1,2-Trichloroethane	0.478	U	4.78	0.478	ug/Kg			10/13/21 18:52	1
Tetrachloroethene	0.707	U	4.78	0.707	ug/Kg			10/13/21 18:52	1
1,3-Dichloropropene, Total	0.497	U	4.78	0.497	ug/Kg			10/13/21 18:52	1
1,2-Dibromoethane	0.287	U	4.78	0.287	ug/Kg			10/13/21 18:52	1
Monochlorobenzene	0.287	U	4.78	0.287	ug/Kg			10/13/21 18:52	1
Ethylbenzene	0.430	U	4.78	0.430	ug/Kg			10/13/21 18:52	1
Xylenes, Total	0.478	U	9.56	0.478	ug/Kg			10/13/21 18:52	1
Styrene	0.287	U	4.78	0.287	ug/Kg			10/13/21 18:52	1
Tribromomethane	0.488	U	4.78	0.488	ug/Kg			10/13/21 18:52	1
1,1,2,2-Tetrachloroethane	0.363	U	4.78	0.363	ug/Kg			10/13/21 18:52	1
1,4-Dichlorobenzene	0.306	U	4.78	0.306	ug/Kg			10/13/21 18:52	1
1,2-Dichlorobenzene	0.239	U	4.78	0.239	ug/Kg			10/13/21 18:52	1
1,2,4-Trichlorobenzene	0.927	U	4.78	0.927	ug/Kg			10/13/21 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 152*		*10/13/21 18:52*	*1*
Toluene-d8 (Surr)	*97*		*65 - 139*		*10/13/21 18:52*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 136*		*10/13/21 18:52*	*1*
4-Bromofluorobenzene (Surr)	*96*		*61 - 142*		*10/13/21 18:52*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.6	U	63.9	11.6	ug/Kg		10/21/21 07:41	10/23/21 11:45	1

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Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell26-158-S-3-4-211007

Date Collected: 10/07/21 10:55
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-5

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*114*		*30 - 164*	*10/21/21 07:41*	*10/23/21 11:45*	*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		10/13/21 07:51	10/14/21 14:48	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
bis (2-chloroisopropyl) ether	17.7	U	166	17.7	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
2,6-Dinitrotoluene	23.2	U	166	23.2	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Anthracene	13.8	U	166	13.8	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Chrysene	16.5	U	166	16.5	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Dimethyl phthalate	15.8	U	166	15.8	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Fluorene	13.8	U	166	13.8	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Hexachloroethane	17.2	U	166	17.2	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Isophorone	14.5	U	166	14.5	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Pyrene	14.6	U	166	14.6	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Naphthalene	15.6	U	166	15.6	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Nitrobenzene	18.5	U	166	18.5	ug/Kg		10/13/21 07:51	10/14/21 14:48	1

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell26-158-S-3-4-211007

Date Collected: 10/07/21 10:55
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-5

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzidine	12.1	U	333	12.1	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		10/13/21 07:51	10/14/21 14:48	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/13/21 07:51	10/14/21 14:48	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	333	332	ug/Kg		10/13/21 07:51	10/14/21 14:48	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*	*10/13/21 07:51*	*10/14/21 14:48*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*30 - 115*	*10/13/21 07:51*	*10/14/21 14:48*	*1*
2-Fluorophenol	*79*		*25 - 121*	*10/13/21 07:51*	*10/14/21 14:48*	*1*
2,4,6-Tribromophenol	*64*		*19 - 122*	*10/13/21 07:51*	*10/14/21 14:48*	*1*
Nitrobenzene-d5	*75*		*23 - 129*	*10/13/21 07:51*	*10/14/21 14:48*	*1*
Phenol-d5 (Surr)	*75*		*24 - 113*	*10/13/21 07:51*	*10/14/21 14:48*	*1*
p-Terphenyl-d14 (Surr)	*83*		*18 - 137*	*10/13/21 07:51*	*10/14/21 14:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		10/13/21 07:51	10/14/21 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*30 - 115*	*10/13/21 07:51*	*10/14/21 17:37*	*1*
2-Fluorophenol	*84*		*25 - 121*	*10/13/21 07:51*	*10/14/21 17:37*	*1*
2,4,6-Tribromophenol	*82*		*19 - 122*	*10/13/21 07:51*	*10/14/21 17:37*	*1*
Nitrobenzene-d5	*81*		*23 - 129*	*10/13/21 07:51*	*10/14/21 17:37*	*1*
Phenol-d5 (Surr)	*86*		*24 - 113*	*10/13/21 07:51*	*10/14/21 17:37*	*1*
p-Terphenyl-d14 (Surr)	*79*		*18 - 137*	*10/13/21 07:51*	*10/14/21 17:37*	*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	21.1	U	49.9	21.1	mg/Kg		10/14/21 12:07	10/15/21 05:59	1
Diesel Range Organics (Over C10-C28)	21.1	U	49.9	21.1	mg/Kg		10/14/21 12:07	10/15/21 05:59	1
Oil Range Organics (Over C28-C36)	21.1	U	49.9	21.1	mg/Kg		10/14/21 12:07	10/15/21 05:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*110*		*65 - 130*	*10/14/21 12:07*	*10/15/21 05:59*	*1*
1-Chlorooctane	*103*		*65 - 130*	*10/14/21 12:07*	*10/15/21 05:59*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	3.00	0.253	ug/Kg		10/12/21 08:39	10/18/21 18:20	1
Aldrin	0.362	U	3.00	0.362	ug/Kg		10/12/21 08:39	10/18/21 18:20	1
Hexachlorocyclohexane, alpha-	0.679	U	3.00	0.679	ug/Kg		10/12/21 08:39	10/18/21 18:20	1
Hexachlorocyclohexane, beta-	0.473	U	3.00	0.473	ug/Kg		10/12/21 08:39	10/18/21 18:20	1
Chlordane (technical)	23.9	U	82.9	23.9	ug/Kg		10/12/21 08:39	10/18/21 18:20	1
Hexachlorocyclohexane, delta-	0.832	U	3.00	0.832	ug/Kg		10/12/21 08:39	10/18/21 18:20	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/12/21 08:39	10/18/21 18:20	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/12/21 08:39	10/18/21 18:20	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/12/21 08:39	10/18/21 18:20	1

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell26-158-S-3-4-211007

Date Collected: 10/07/21 10:55
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-5

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	0.275	U	3.00	0.275	ug/Kg		10/12/21 08:39	10/18/21 18:20	1
Endrin	0.290	U	3.00	0.290	ug/Kg		10/12/21 08:39	10/18/21 18:20	1
Endrin aldehyde	0.247	U	3.00	0.247	ug/Kg		10/12/21 08:39	10/18/21 18:20	1
Hexachlorocyclohexane, gamma-	0.438	U	3.00	0.438	ug/Kg		10/12/21 08:39	10/18/21 18:20	1
Heptachlor	0.561	U	3.00	0.561	ug/Kg		10/12/21 08:39	10/18/21 18:20	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/12/21 08:39	10/18/21 18:20	1
Toxaphene	11.3	U	82.9	11.3	ug/Kg		10/12/21 08:39	10/18/21 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*35 - 135*	*10/12/21 08:39*	*10/18/21 18:20*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*25 - 143*	*10/12/21 08:39*	*10/18/21 18:20*	*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	0.0208	U	0.0916	0.0208	mg/Kg		10/19/21 16:26	10/21/21 00:17	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0394	U	0.183	0.0394	mg/Kg		10/19/21 16:26	10/21/21 00:17	1
2,4,6-Trinitrotoluene	0.0281	U	0.0916	0.0281	mg/Kg		10/19/21 16:26	10/21/21 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*104*		*83 - 122*	*10/19/21 16:26*	*10/21/21 00:17*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.35**	**J**	9.84	3.48	mg/Kg		10/23/21 09:07	10/24/21 15:30	1
Nitrate as N	**7.21**		0.984	0.106	mg/Kg		10/23/21 09:07	10/24/21 15:30	1
Fluoride	**4.51**	**J**	4.92	0.984	mg/Kg		10/23/21 09:07	10/24/21 15:30	1
Nitrite as N	**0.399**	**J b**	0.984	0.0492	mg/Kg		10/23/21 09:07	10/24/21 15:30	1
Nitrate Nitrite as N	**7.61**		0.984	0.106	mg/Kg		10/23/21 09:07	10/24/21 15:30	1
Sulfate	**59.8**		9.84	4.25	mg/Kg		10/23/21 09:07	10/24/21 15:30	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.0982**	**J**	0.491	0.0809	ug/Kg		10/15/21 15:58	10/19/21 14:50	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.210	U	0.731	0.210	ug/Kg		10/14/21 17:30	10/18/21 08:53	1
Perfluorohexanesulfonic acid (PFHxS)	0.256	U	0.731	0.256	ug/Kg		10/14/21 17:30	10/18/21 08:53	1
Perfluorooctanesulfonic acid (PFOS)	0.128	U	0.731	0.128	ug/Kg		10/14/21 17:30	10/18/21 08:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*101*		*57 - 153*	*10/14/21 17:30*	*10/18/21 08:53*	*1*
13C8 PFOS	*99*		*70 - 130*	*10/14/21 17:30*	*10/18/21 08:53*	*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		10/12/21 11:40	10/13/21 22:26	10
Arsenic	**1.94**	**J**	3.57	0.551	mg/Kg		10/12/21 11:40	10/13/21 22:26	10
Barium	**164**		3.57	0.310	mg/Kg		10/12/21 11:40	10/13/21 22:26	10
Beryllium	0.165	U	1.79	0.165	mg/Kg		10/12/21 11:40	10/13/21 22:26	10
Cadmium	0.104	U	1.79	0.104	mg/Kg		10/12/21 11:40	10/13/21 22:26	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-158-S-3-4-211007 Lab Sample ID: 860-13405-5
Date Collected: 10/07/21 10:55 **Matrix: Solid**
Date Received: 10/09/21 10:00

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**1.66**	**J**	3.57	0.242	mg/Kg		10/12/21 11:40	10/13/21 22:26	10
Copper	**0.984**	**J**	3.57	0.233	mg/Kg		10/12/21 11:40	10/13/21 22:26	10
Iron	**1450**		17.9	2.09	mg/Kg		10/12/21 11:40	10/13/21 22:26	10
Manganese	**40.9**	**b**	1.79	0.227	mg/Kg		10/12/21 11:40	10/13/21 22:26	10
Lead	**1.43**	**J**	1.79	0.173	mg/Kg		10/12/21 11:40	10/13/21 22:26	10
Antimony	**0.118**	**J**	1.79	0.106	mg/Kg		10/12/21 11:40	10/13/21 22:26	10
Selenium	0.443	U	1.79	0.443	mg/Kg		10/12/21 11:40	10/13/21 22:26	10
Thallium	0.213	U	1.79	0.213	mg/Kg		10/12/21 11:40	10/13/21 22:26	10
Uranium	**0.357**	**J**	0.893	0.0534	mg/Kg		10/12/21 11:40	10/13/21 22:26	10
Zinc	**10.8**	**b**	3.57	0.395	mg/Kg		10/12/21 11:40	10/14/21 19:03	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00745**	**J**	0.0182	0.00349	mg/Kg		10/13/21 09:45	10/13/21 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**109**		60.2	29.9	ug/Kg		10/21/21 11:00	10/21/21 16:45	1
Phenols, Total	0.0597	U	0.0994	0.0597	mg/Kg		10/21/21 11:31	10/22/21 12:21	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.9**	**HF**			SU			10/21/21 13:54	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**157**		10.0	10.0	mg/L			10/23/21 15:40	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	**0.418**		0.135	0.142	1.00	0.144	pCi/g	10/15/21 12:56	11/08/21 18:40	1
Radium-228	0.162	U	0.0846	0.0862		0.289	pCi/g	10/15/21 12:56	11/08/21 18:40	1
Combined Radium 226 + 228	**0.580**		0.159	0.166		0.289	pCi/g	10/15/21 12:56	11/08/21 18:40	1

Client Sample ID: Cell26-158-S-3-4-211007 Lab Sample ID: 860-13405-5
Date Collected: 10/07/21 10:55 **Matrix: Solid**
Date Received: 10/09/21 10:00 **Percent Solids: 74.3**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00333	U	0.00666	0.00333	mg/Kg	☼	10/11/21 11:38	10/19/21 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*	*10/11/21 11:38*	*10/19/21 15:49*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00531	U	0.0224	0.00531	mg/Kg	☼	10/12/21 08:39	10/13/21 16:37	1
Aroclor 1221	0.00531	U	0.0224	0.00531	mg/Kg	☼	10/12/21 08:39	10/13/21 16:37	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-158-S-3-4-211007 Lab Sample ID: 860-13405-5

Date Collected: 10/07/21 10:55 **Matrix: Solid**
Date Received: 10/09/21 10:00 **Percent Solids: 74.3**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1232	0.00531	U	0.0224	0.00531	mg/Kg	☼	10/12/21 08:39	10/13/21 16:37	1
Aroclor 1242	0.00531	U	0.0224	0.00531	mg/Kg	☼	10/12/21 08:39	10/13/21 16:37	1
Aroclor 1248	0.00531	U	0.0224	0.00531	mg/Kg	☼	10/12/21 08:39	10/13/21 16:37	1
Aroclor 1254	0.00350	U	0.0224	0.00350	mg/Kg	☼	10/12/21 08:39	10/13/21 16:37	1
Aroclor 1260	0.00350	U	0.0224	0.00350	mg/Kg	☼	10/12/21 08:39	10/13/21 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*35 - 140*	*10/12/21 08:39*	*10/13/21 16:37*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*37 - 142*	*10/12/21 08:39*	*10/13/21 16:37*	*1*

Client Sample ID: Cell26-129-S-3-4-211007 Lab Sample ID: 860-13405-6

Date Collected: 10/07/21 11:24 **Matrix: Solid**
Date Received: 10/09/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.721	U	4.94	0.721	ug/Kg			10/13/21 19:18	1
Chloromethane	1.19	U	4.94	1.19	ug/Kg			10/13/21 19:18	1
Vinyl chloride	0.593	U	4.94	0.593	ug/Kg			10/13/21 19:18	1
Bromomethane	1.09	U	4.94	1.09	ug/Kg			10/13/21 19:18	1
Trichlorofluoromethane	0.494	U	4.94	0.494	ug/Kg			10/13/21 19:18	1
Acrolein	8.50	U	49.4	8.50	ug/Kg			10/13/21 19:18	1
1,1-Dichloroethene	0.494	U	4.94	0.494	ug/Kg			10/13/21 19:18	1
trans-1,2-Dichloroethene	0.494	U	4.94	0.494	ug/Kg			10/13/21 19:18	1
Methyl tert-butyl ether	0.603	U	4.94	0.603	ug/Kg			10/13/21 19:18	1
1,3-Dichlorobenzene	0.306	U	4.94	0.306	ug/Kg			10/13/21 19:18	1
Methylene Chloride	4.94	U	24.7	4.94	ug/Kg			10/13/21 19:18	1
Acrylonitrile	3.56	U	49.4	3.56	ug/Kg			10/13/21 19:18	1
cis-1,2-Dichloroethene	0.563	U	4.94	0.563	ug/Kg			10/13/21 19:18	1
Carbon tetrachloride	0.504	U	4.94	0.504	ug/Kg			10/13/21 19:18	1
Benzene	0.623	U	4.94	0.623	ug/Kg			10/13/21 19:18	1
1,2-Dichloroethane	0.514	U	4.94	0.514	ug/Kg			10/13/21 19:18	1
Trichloroethene	0.277	U	4.94	0.277	ug/Kg			10/13/21 19:18	1
1,1,1-Trichloroethane	0.494	U	4.94	0.494	ug/Kg			10/13/21 19:18	1
1,1-Dichloroethane	0.583	U	4.94	0.583	ug/Kg			10/13/21 19:18	1
1,2-Dichloropropane	0.494	U	4.94	0.494	ug/Kg			10/13/21 19:18	1
1,4-Dioxane	18.8	U	98.8	18.8	ug/Kg			10/13/21 19:18	1
Chloroform	0.860	U	4.94	0.860	ug/Kg			10/13/21 19:18	1
Bromodichloromethane	0.198	U	4.94	0.198	ug/Kg			10/13/21 19:18	1
1,1-Dichloropropene	0.514	U	4.94	0.514	ug/Kg			10/13/21 19:18	1
cis-1,3-Dichloropropene	0.445	U	4.94	0.445	ug/Kg			10/13/21 19:18	1
Toluene	0.889	U	4.94	0.889	ug/Kg			10/13/21 19:18	1
trans-1,3-Dichloropropene	0.514	U	4.94	0.514	ug/Kg			10/13/21 19:18	1
1,1,2-Trichloroethane	0.494	U	4.94	0.494	ug/Kg			10/13/21 19:18	1
Tetrachloroethene	0.731	U	4.94	0.731	ug/Kg			10/13/21 19:18	1
1,3-Dichloropropene, Total	0.514	U	4.94	0.514	ug/Kg			10/13/21 19:18	1
1,2-Dibromoethane	0.296	U	4.94	0.296	ug/Kg			10/13/21 19:18	1
Monochlorobenzene	0.296	U	4.94	0.296	ug/Kg			10/13/21 19:18	1
Ethylbenzene	0.445	U	4.94	0.445	ug/Kg			10/13/21 19:18	1
Xylenes, Total	0.494	U	9.88	0.494	ug/Kg			10/13/21 19:18	1

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell26-129-S-3-4-211007

Date Collected: 10/07/21 11:24
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.296	U	4.94	0.296	ug/Kg			10/13/21 19:18	1
Tribromomethane	0.504	U	4.94	0.504	ug/Kg			10/13/21 19:18	1
1,1,2,2-Tetrachloroethane	0.375	U	4.94	0.375	ug/Kg			10/13/21 19:18	1
1,4-Dichlorobenzene	0.316	U	4.94	0.316	ug/Kg			10/13/21 19:18	1
1,2-Dichlorobenzene	0.247	U	4.94	0.247	ug/Kg			10/13/21 19:18	1
1,2,4-Trichlorobenzene	0.958	U	4.94	0.958	ug/Kg			10/13/21 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 152*		*10/13/21 19:18*	*1*
Toluene-d8 (Surr)	*99*		*65 - 139*		*10/13/21 19:18*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 136*		*10/13/21 19:18*	*1*
4-Bromofluorobenzene (Surr)	*98*		*61 - 142*		*10/13/21 19:18*	*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		10/21/21 07:41	10/23/21 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*112*		*30 - 164*	*10/21/21 07:41*	*10/23/21 12:11*	*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		10/13/21 07:51	10/14/21 15:35	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/13/21 07:51	10/14/21 15:35	1

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell26-129-S-3-4-211007

Date Collected: 10/07/21 11:24
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-6

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		10/13/21 07:51	10/14/21 15:35	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/13/21 07:51	10/14/21 15:35	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/13/21 07:51	10/14/21 15:35	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*	*10/13/21 07:51*	*10/14/21 15:35*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*30 - 115*	*10/13/21 07:51*	*10/14/21 15:35*	*1*
2-Fluorophenol	*83*		*25 - 121*	*10/13/21 07:51*	*10/14/21 15:35*	*1*
2,4,6-Tribromophenol	*63*		*19 - 122*	*10/13/21 07:51*	*10/14/21 15:35*	*1*
Nitrobenzene-d5	*78*		*23 - 129*	*10/13/21 07:51*	*10/14/21 15:35*	*1*
Phenol-d5 (Surr)	*79*		*24 - 113*	*10/13/21 07:51*	*10/14/21 15:35*	*1*
p-Terphenyl-d14 (Surr)	*86*		*18 - 137*	*10/13/21 07:51*	*10/14/21 15:35*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/13/21 07:51	10/14/21 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*30 - 115*	*10/13/21 07:51*	*10/14/21 18:19*	*1*
2-Fluorophenol	*88*		*25 - 121*	*10/13/21 07:51*	*10/14/21 18:19*	*1*
2,4,6-Tribromophenol	*86*		*19 - 122*	*10/13/21 07:51*	*10/14/21 18:19*	*1*
Nitrobenzene-d5	*83*		*23 - 129*	*10/13/21 07:51*	*10/14/21 18:19*	*1*
Phenol-d5 (Surr)	*91*		*24 - 113*	*10/13/21 07:51*	*10/14/21 18:19*	*1*
p-Terphenyl-d14 (Surr)	*84*		*18 - 137*	*10/13/21 07:51*	*10/14/21 18:19*	*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		10/14/21 12:07	10/15/21 06:17	1

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell26-129-S-3-4-211007

Date Collected: 10/07/21 11:24
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-6

Matrix: Solid

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)	21.2	U	50.2	21.2	mg/Kg		10/14/21 12:07	10/15/21 06:17	1
Oil Range Organics (Over C28-C36)	21.2	U	50.2	21.2	mg/Kg		10/14/21 12:07	10/15/21 06:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*115*		*65 - 130*	*10/14/21 12:07*	*10/15/21 06:17*	*1*
1-Chlorooctane	*104*		*65 - 130*	*10/14/21 12:07*	*10/15/21 06:17*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	2.99	0.253	ug/Kg		10/12/21 08:39	10/18/21 18:34	1
Aldrin	0.362	U	2.99	0.362	ug/Kg		10/12/21 08:39	10/18/21 18:34	1
Hexachlorocyclohexane, alpha-	0.679	U	2.99	0.679	ug/Kg		10/12/21 08:39	10/18/21 18:34	1
Hexachlorocyclohexane, beta-	0.473	U	2.99	0.473	ug/Kg		10/12/21 08:39	10/18/21 18:34	1
Chlordane (technical)	23.9	U	82.8	23.9	ug/Kg		10/12/21 08:39	10/18/21 18:34	1
Hexachlorocyclohexane, delta-	0.832	U	2.99	0.832	ug/Kg		10/12/21 08:39	10/18/21 18:34	1
Dieldrin	0.169	U	2.99	0.169	ug/Kg		10/12/21 08:39	10/18/21 18:34	1
Endosulfan I	0.201	U	2.99	0.201	ug/Kg		10/12/21 08:39	10/18/21 18:34	1
Endosulfan II	0.372	U	2.99	0.372	ug/Kg		10/12/21 08:39	10/18/21 18:34	1
Endosulfan sulfate	0.275	U	2.99	0.275	ug/Kg		10/12/21 08:39	10/18/21 18:34	1
Endrin	0.290	U	2.99	0.290	ug/Kg		10/12/21 08:39	10/18/21 18:34	1
Endrin aldehyde	0.247	U	2.99	0.247	ug/Kg		10/12/21 08:39	10/18/21 18:34	1
Hexachlorocyclohexane, gamma-	0.438	U	2.99	0.438	ug/Kg		10/12/21 08:39	10/18/21 18:34	1
Heptachlor	0.561	U	2.99	0.561	ug/Kg		10/12/21 08:39	10/18/21 18:34	1
Heptachlor epoxide	0.244	U	2.99	0.244	ug/Kg		10/12/21 08:39	10/18/21 18:34	1
Toxaphene	11.3	U	82.8	11.3	ug/Kg		10/12/21 08:39	10/18/21 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*35 - 135*	*10/12/21 08:39*	*10/18/21 18:34*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*25 - 143*	*10/12/21 08:39*	*10/18/21 18:34*	*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		10/19/21 16:26	10/21/21 00:40	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0420	U	0.195	0.0420	mg/Kg		10/19/21 16:26	10/21/21 00:40	1
2,4,6-Trinitrotoluene	0.0300	U	0.0976	0.0300	mg/Kg		10/19/21 16:26	10/21/21 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*102*		*83 - 122*	*10/19/21 16:26*	*10/21/21 00:40*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.96**	**J**	9.86	3.49	mg/Kg		10/23/21 09:07	10/24/21 16:01	1
Nitrate as N	**7.86**		0.986	0.107	mg/Kg		10/23/21 09:07	10/24/21 16:01	1
Fluoride	**6.39**		4.93	0.986	mg/Kg		10/23/21 09:07	10/24/21 16:01	1
Nitrite as N	**0.492**	**J b**	0.986	0.0493	mg/Kg		10/23/21 09:07	10/24/21 16:01	1
Nitrate Nitrite as N	**8.35**		0.986	0.107	mg/Kg		10/23/21 09:07	10/24/21 16:01	1
Sulfate	**83.3**		9.86	4.26	mg/Kg		10/23/21 09:07	10/24/21 16:01	1

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell26-129-S-3-4-211007

Date Collected: 10/07/21 11:24
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-6

Matrix: Solid

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		10/15/21 15:58	10/19/21 14:55	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	0.776	0.223	ug/Kg		10/14/21 17:30	10/18/21 09:10	1
Perfluorohexanesulfonic acid (PFHxS)	0.272	U	0.776	0.272	ug/Kg		10/14/21 17:30	10/18/21 09:10	1
Perfluorooctanesulfonic acid (PFOS)	0.136	U	0.776	0.136	ug/Kg		10/14/21 17:30	10/18/21 09:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*101*		*57 - 153*	*10/14/21 17:30*	*10/18/21 09:10*	*1*
13C8 PFOS	*103*		*70 - 130*	*10/14/21 17:30*	*10/18/21 09:10*	*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		10/12/21 11:40	10/13/21 22:30	10
Arsenic	**1.42**	**J**	3.77	0.582	mg/Kg		10/12/21 11:40	10/13/21 22:30	10
Barium	**75.5**		3.77	0.327	mg/Kg		10/12/21 11:40	10/13/21 22:30	10
Beryllium	0.175	U	1.89	0.175	mg/Kg		10/12/21 11:40	10/13/21 22:30	10
Cadmium	**0.231**	**J**	1.89	0.109	mg/Kg		10/12/21 11:40	10/13/21 22:30	10
Chromium	**2.64**	**J**	3.77	0.256	mg/Kg		10/12/21 11:40	10/13/21 22:30	10
Copper	**2.65**	**J**	3.77	0.246	mg/Kg		10/12/21 11:40	10/13/21 22:30	10
Iron	**2450**		18.9	2.21	mg/Kg		10/12/21 11:40	10/13/21 22:30	10
Manganese	**39.5**	**b**	1.89	0.240	mg/Kg		10/12/21 11:40	10/13/21 22:30	10
Lead	**6.08**		1.89	0.183	mg/Kg		10/12/21 11:40	10/13/21 22:30	10
Antimony	**0.149**	**J**	1.89	0.112	mg/Kg		10/12/21 11:40	10/13/21 22:30	10
Selenium	0.468	U	1.89	0.468	mg/Kg		10/12/21 11:40	10/13/21 22:30	10
Thallium	0.225	U	1.89	0.225	mg/Kg		10/12/21 11:40	10/13/21 22:30	10
Uranium	**0.251**	**J**	0.943	0.0564	mg/Kg		10/12/21 11:40	10/13/21 22:30	10
Zinc	**777**	**b**	3.77	0.418	mg/Kg		10/12/21 11:40	10/14/21 19:06	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0107**	**J**	0.0185	0.00356	mg/Kg		10/13/21 09:45	10/13/21 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**31.5**	**J**	60.1	29.8	ug/Kg		10/21/21 11:00	10/21/21 16:46	1
Phenols, Total	0.0600	U	0.0999	0.0600	mg/Kg		10/21/21 11:31	10/22/21 12:24	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.8**	**HF**			SU			10/21/21 13:54	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**128**		10.0	10.0	mg/L			10/23/21 15:40	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-129-S-3-4-211007 Lab Sample ID: 860-13405-6
Date Collected: 10/07/21 11:24 **Matrix: Solid**
Date Received: 10/09/21 10:00

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	0.558		0.156	0.166	1.00	0.0994	pCi/g	10/15/21 12:56	11/08/21 18:40	1
Radium-228	0.541		0.245	0.251		0.220	pCi/g	10/15/21 12:56	11/08/21 18:40	1
Combined Radium 226 + 228	1.10		0.290	0.301		0.220	pCi/g	10/15/21 12:56	11/08/21 18:40	1

Client Sample ID: Cell26-129-S-3-4-211007 Lab Sample ID: 860-13405-6
Date Collected: 10/07/21 11:24 **Matrix: Solid**
Date Received: 10/09/21 10:00 **Percent Solids: 86.5**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00291	U	0.00583	0.00291	mg/Kg	☼	10/11/21 11:38	10/19/21 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*63 - 144*	*10/11/21 11:38*	*10/19/21 16:06*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00456	U	0.0192	0.00456	mg/Kg	☼	10/12/21 08:39	10/13/21 16:47	1
Aroclor 1221	0.00456	U	0.0192	0.00456	mg/Kg	☼	10/12/21 08:39	10/13/21 16:47	1
Aroclor 1232	0.00456	U	0.0192	0.00456	mg/Kg	☼	10/12/21 08:39	10/13/21 16:47	1
Aroclor 1242	0.00456	U	0.0192	0.00456	mg/Kg	☼	10/12/21 08:39	10/13/21 16:47	1
Aroclor 1248	0.00456	U	0.0192	0.00456	mg/Kg	☼	10/12/21 08:39	10/13/21 16:47	1
Aroclor 1254	0.00301	U	0.0192	0.00301	mg/Kg	☼	10/12/21 08:39	10/13/21 16:47	1
Aroclor 1260	0.00301	U	0.0192	0.00301	mg/Kg	☼	10/12/21 08:39	10/13/21 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*35 - 140*	*10/12/21 08:39*	*10/13/21 16:47*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*37 - 142*	*10/12/21 08:39*	*10/13/21 16:47*	*1*

Client Sample ID: Cell26-49-S-3-4-211007 Lab Sample ID: 860-13405-7
Date Collected: 10/07/21 11:51 **Matrix: Solid**
Date Received: 10/09/21 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.611	U	4.19	0.611	ug/Kg			10/13/21 19:43	1
Chloromethane	1.01	U	4.19	1.01	ug/Kg			10/13/21 19:43	1
Vinyl chloride	0.503	U	4.19	0.503	ug/Kg			10/13/21 19:43	1
Bromomethane	0.921	U	4.19	0.921	ug/Kg			10/13/21 19:43	1
Trichlorofluoromethane	0.419	U	4.19	0.419	ug/Kg			10/13/21 19:43	1
Acrolein	7.20	U	41.9	7.20	ug/Kg			10/13/21 19:43	1
1,1-Dichloroethene	0.419	U	4.19	0.419	ug/Kg			10/13/21 19:43	1
trans-1,2-Dichloroethene	0.419	U	4.19	0.419	ug/Kg			10/13/21 19:43	1
Methyl tert-butyl ether	0.511	U	4.19	0.511	ug/Kg			10/13/21 19:43	1
1,3-Dichlorobenzene	0.260	U	4.19	0.260	ug/Kg			10/13/21 19:43	1
Methylene Chloride	4.19	U	20.9	4.19	ug/Kg			10/13/21 19:43	1
Acrylonitrile	3.02	U	41.9	3.02	ug/Kg			10/13/21 19:43	1
cis-1,2-Dichloroethene	0.477	U	4.19	0.477	ug/Kg			10/13/21 19:43	1

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell26-49-S-3-4-211007
Date Collected: 10/07/21 11:51
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.427	U	4.19	0.427	ug/Kg			10/13/21 19:43	1
Benzene	0.528	U	4.19	0.528	ug/Kg			10/13/21 19:43	1
1,2-Dichloroethane	0.436	U	4.19	0.436	ug/Kg			10/13/21 19:43	1
Trichloroethene	0.235	U	4.19	0.235	ug/Kg			10/13/21 19:43	1
1,1,1-Trichloroethane	0.419	U	4.19	0.419	ug/Kg			10/13/21 19:43	1
1,1-Dichloroethane	0.494	U	4.19	0.494	ug/Kg			10/13/21 19:43	1
1,2-Dichloropropane	0.419	U	4.19	0.419	ug/Kg			10/13/21 19:43	1
1,4-Dioxane	15.9	U	83.8	15.9	ug/Kg			10/13/21 19:43	1
Chloroform	0.729	U	4.19	0.729	ug/Kg			10/13/21 19:43	1
Bromodichloromethane	0.168	U	4.19	0.168	ug/Kg			10/13/21 19:43	1
1,1-Dichloropropene	0.436	U	4.19	0.436	ug/Kg			10/13/21 19:43	1
cis-1,3-Dichloropropene	0.377	U	4.19	0.377	ug/Kg			10/13/21 19:43	1
Toluene	0.754	U	4.19	0.754	ug/Kg			10/13/21 19:43	1
trans-1,3-Dichloropropene	0.436	U	4.19	0.436	ug/Kg			10/13/21 19:43	1
1,1,2-Trichloroethane	0.419	U	4.19	0.419	ug/Kg			10/13/21 19:43	1
Tetrachloroethene	0.620	U	4.19	0.620	ug/Kg			10/13/21 19:43	1
1,3-Dichloropropene, Total	0.436	U	4.19	0.436	ug/Kg			10/13/21 19:43	1
1,2-Dibromoethane	0.251	U	4.19	0.251	ug/Kg			10/13/21 19:43	1
Monochlorobenzene	0.251	U	4.19	0.251	ug/Kg			10/13/21 19:43	1
Ethylbenzene	0.377	U	4.19	0.377	ug/Kg			10/13/21 19:43	1
Xylenes, Total	0.419	U	8.38	0.419	ug/Kg			10/13/21 19:43	1
Styrene	0.251	U	4.19	0.251	ug/Kg			10/13/21 19:43	1
Tribromomethane	0.427	U	4.19	0.427	ug/Kg			10/13/21 19:43	1
1,1,2,2-Tetrachloroethane	0.318	U	4.19	0.318	ug/Kg			10/13/21 19:43	1
1,4-Dichlorobenzene	0.268	U	4.19	0.268	ug/Kg			10/13/21 19:43	1
1,2-Dichlorobenzene	0.209	U	4.19	0.209	ug/Kg			10/13/21 19:43	1
1,2,4-Trichlorobenzene	0.812	U	4.19	0.812	ug/Kg			10/13/21 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 152*		*10/13/21 19:43*	*1*
Toluene-d8 (Surr)	*98*		*65 - 139*		*10/13/21 19:43*	*1*
Dibromofluoromethane (Surr)	*105*		*50 - 136*		*10/13/21 19:43*	*1*
4-Bromofluorobenzene (Surr)	*96*		*61 - 142*		*10/13/21 19:43*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	65.7	12.0	ug/Kg		10/21/21 07:41	10/23/21 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*111*		*30 - 164*	*10/21/21 07:41*	*10/23/21 12:37*	*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		10/13/21 07:51	10/14/21 15:58	1
1,2,4,5-Tetrachlorobenzene	16.5	U	166	16.5	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
1-Methylnaphthalene	26.7	U	166	26.7	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
bis (2-chloroisopropyl) ether	17.8	U	166	17.8	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		10/13/21 07:51	10/14/21 15:58	1

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell26-49-S-3-4-211007
Date Collected: 10/07/21 11:51
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-7
Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
2,6-Dinitrotoluene	23.3	U	166	23.3	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Anthracene	13.8	U	166	13.8	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Acenaphthylene	14.8	U	166	14.8	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Benzo[b]fluoranthene	12.6	U	166	12.6	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Chrysene	16.5	U	166	16.5	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Dimethyl phthalate	15.9	U	166	15.9	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Fluorene	13.8	U	166	13.8	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Hexachloroethane	17.3	U	166	17.3	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Isophorone	14.5	U	166	14.5	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Phenanthrene	16.6	U	166	16.6	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Pyrene	14.6	U	166	14.6	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Naphthalene	15.6	U	166	15.6	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Nitrobenzene	18.5	U	166	18.5	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		10/13/21 07:51	10/14/21 15:58	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/13/21 07:51	10/14/21 15:58	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/13/21 07:51	10/14/21 15:58	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*	*10/13/21 07:51*	*10/14/21 15:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*30 - 115*	*10/13/21 07:51*	*10/14/21 15:58*	*1*
2-Fluorophenol	*82*		*25 - 121*	*10/13/21 07:51*	*10/14/21 15:58*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-49-S-3-4-211007 Lab Sample ID: 860-13405-7

Date Collected: 10/07/21 11:51 **Matrix: Solid**
Date Received: 10/09/21 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*63*		*19 - 122*	*10/13/21 07:51*	*10/14/21 15:58*	*1*
Nitrobenzene-d5	*78*		*23 - 129*	*10/13/21 07:51*	*10/14/21 15:58*	*1*
Phenol-d5 (Surr)	*77*		*24 - 113*	*10/13/21 07:51*	*10/14/21 15:58*	*1*
p-Terphenyl-d14 (Surr)	*86*		*18 - 137*	*10/13/21 07:51*	*10/14/21 15:58*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		10/13/21 07:51	10/14/21 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*30 - 115*	*10/13/21 07:51*	*10/14/21 18:39*	*1*
2-Fluorophenol	*87*		*25 - 121*	*10/13/21 07:51*	*10/14/21 18:39*	*1*
2,4,6-Tribromophenol	*88*		*19 - 122*	*10/13/21 07:51*	*10/14/21 18:39*	*1*
Nitrobenzene-d5	*85*		*23 - 129*	*10/13/21 07:51*	*10/14/21 18:39*	*1*
Phenol-d5 (Surr)	*88*		*24 - 113*	*10/13/21 07:51*	*10/14/21 18:39*	*1*
p-Terphenyl-d14 (Surr)	*83*		*18 - 137*	*10/13/21 07:51*	*10/14/21 18:39*	*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	20.9	U	49.6	20.9	mg/Kg		10/14/21 12:07	10/15/21 06:34	1
Diesel Range Organics (Over C10-C28)	20.9	U	49.6	20.9	mg/Kg		10/14/21 12:07	10/15/21 06:34	1
OII Range Organics (Over C28-C36)	20.9	U	49.6	20.9	mg/Kg		10/14/21 12:07	10/15/21 06:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*112*		*65 - 130*	*10/14/21 12:07*	*10/15/21 06:34*	*1*
1-Chlorooctane	*103*		*65 - 130*	*10/14/21 12:07*	*10/15/21 06:34*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	3.00	0.253	ug/Kg		10/12/21 08:39	10/18/21 18:47	1
Aldrin	0.362	U	3.00	0.362	ug/Kg		10/12/21 08:39	10/18/21 18:47	1
Hexachlorocyclohexane, alpha-	0.679	U	3.00	0.679	ug/Kg		10/12/21 08:39	10/18/21 18:47	1
Hexachlorocyclohexane, beta-	0.473	U	3.00	0.473	ug/Kg		10/12/21 08:39	10/18/21 18:47	1
Chlordane (technical)	23.9	U	82.9	23.9	ug/Kg		10/12/21 08:39	10/18/21 18:47	1
Hexachlorocyclohexane, delta-	0.832	U	3.00	0.832	ug/Kg		10/12/21 08:39	10/18/21 18:47	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/12/21 08:39	10/18/21 18:47	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/12/21 08:39	10/18/21 18:47	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/12/21 08:39	10/18/21 18:47	1
Endosulfan sulfate	0.275	U	3.00	0.275	ug/Kg		10/12/21 08:39	10/18/21 18:47	1
Endrin	0.290	U	3.00	0.290	ug/Kg		10/12/21 08:39	10/18/21 18:47	1
Endrin aldehyde	0.247	U	3.00	0.247	ug/Kg		10/12/21 08:39	10/18/21 18:47	1
Hexachlorocyclohexane, gamma-	0.438	U	3.00	0.438	ug/Kg		10/12/21 08:39	10/18/21 18:47	1
Heptachlor	0.561	U	3.00	0.561	ug/Kg		10/12/21 08:39	10/18/21 18:47	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/12/21 08:39	10/18/21 18:47	1
Toxaphene	11.3	U	82.9	11.3	ug/Kg		10/12/21 08:39	10/18/21 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*35 - 135*	*10/12/21 08:39*	*10/18/21 18:47*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*25 - 143*	*10/12/21 08:39*	*10/18/21 18:47*	*1*

Client Sample Results

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

Job ID: 860-13405-1

Client Sample ID: Cell26-49-S-3-4-211007

Date Collected: 10/07/21 11:51
Date Received: 10/09/21 10:00

Lab Sample ID: 860-13405-7

Matrix: Solid

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	0.0938	0.0213	mg/Kg		10/19/21 16:26	10/21/21 01:03	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0403	U	0.188	0.0403	mg/Kg		10/19/21 16:26	10/21/21 01:03	1
2,4,6-Trinitrotoluene	0.0288	U	0.0938	0.0288	mg/Kg		10/19/21 16:26	10/21/21 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*104*		*83 - 122*	*10/19/21 16:26*	*10/21/21 01:03*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.84**	**J**	10.0	3.54	mg/Kg		10/23/21 09:07	10/24/21 16:12	1
Nitrate as N	**7.23**		1.00	0.108	mg/Kg		10/23/21 09:07	10/24/21 16:12	1
Fluoride	**3.86**	**J**	5.00	1.00	mg/Kg		10/23/21 09:07	10/24/21 16:12	1
Nitrite as N	**0.395**	**J b**	1.00	0.0500	mg/Kg		10/23/21 09:07	10/24/21 16:12	1
Nitrate Nitrite as N	**7.63**		1.00	0.108	mg/Kg		10/23/21 09:07	10/24/21 16:12	1
Sulfate	**37.9**		10.0	4.32	mg/Kg		10/23/21 09:07	10/24/21 16:12	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.197**	**J**	0.462	0.0762	ug/Kg		10/15/21 15:58	10/19/21 15:16	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		10/14/21 17:30	10/18/21 09:19	1
Perfluorohexanesulfonic acid (PFHxS)	0.267	U	0.764	0.267	ug/Kg		10/14/21 17:30	10/18/21 09:19	1
Perfluorooctanesulfonic acid (PFOS)	0.134	U	0.764	0.134	ug/Kg		10/14/21 17:30	10/18/21 09:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*102*		*57 - 153*	*10/14/21 17:30*	*10/18/21 09:19*	*1*
13C8 PFOS	*98*		*70 - 130*	*10/14/21 17:30*	*10/18/21 09:19*	*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		10/12/21 11:40	10/13/21 22:33	10
Arsenic	**3.01**	**J**	3.51	0.541	mg/Kg		10/12/21 11:40	10/13/21 22:33	10
Barium	**255**		3.51	0.304	mg/Kg		10/12/21 11:40	10/13/21 22:33	10
Beryllium	0.162	U	1.75	0.162	mg/Kg		10/12/21 11:40	10/13/21 22:33	10
Cadmium	0.102	U	1.75	0.102	mg/Kg		10/12/21 11:40	10/13/21 22:33	10
Chromium	**1.78**	**J**	3.51	0.238	mg/Kg		10/12/21 11:40	10/13/21 22:33	10
Copper	**1.14**	**J**	3.51	0.229	mg/Kg		10/12/21 11:40	10/13/21 22:33	10
Iron	**1590**		17.5	2.06	mg/Kg		10/12/21 11:40	10/13/21 22:33	10
Manganese	**15.5**	**b**	1.75	0.223	mg/Kg		10/12/21 11:40	10/13/21 22:33	10
Lead	**1.16**	**J**	1.75	0.170	mg/Kg		10/12/21 11:40	10/13/21 22:33	10
Antimony	0.104	U	1.75	0.104	mg/Kg		10/12/21 11:40	10/13/21 22:33	10
Selenium	0.435	U	1.75	0.435	mg/Kg		10/12/21 11:40	10/13/21 22:33	10
Thallium	0.210	U	1.75	0.210	mg/Kg		10/12/21 11:40	10/13/21 22:33	10
Uranium	**0.438**	**J**	0.877	0.0524	mg/Kg		10/12/21 11:40	10/13/21 22:33	10
Zinc	**7.55**	**b**	3.51	0.388	mg/Kg		10/12/21 11:40	10/14/21 19:09	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-49-S-3-4-211007 Lab Sample ID: 860-13405-7
Date Collected: 10/07/21 11:51 **Matrix: Solid**
Date Received: 10/09/21 10:00

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0130**	**J**	0.0189	0.00363	mg/Kg		10/13/21 11:41	10/13/21 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**33.5**	**J**	59.9	29.7	ug/Kg		10/21/21 11:00	10/21/21 16:48	1
Phenols, Total	0.0598	U	0.0996	0.0598	mg/Kg		10/21/21 11:31	10/22/21 12:26	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.0**	**HF**			SU			10/21/21 13:54	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**129**		10.0	10.0	mg/L			10/23/21 15:40	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	**1.14**		0.170	0.207	1.00	0.106	pCi/g	10/15/21 12:56	11/08/21 18:45	1
Radium-228	0.0949	U	0.126	0.127		0.172	pCi/g	10/15/21 12:56	11/08/21 18:45	1
Combined Radium 226 + 228	**1.24**		0.212	0.243		0.172	pCi/g	10/15/21 12:56	11/08/21 18:45	1

Client Sample ID: Cell26-49-S-3-4-211007 Lab Sample ID: 860-13405-7
Date Collected: 10/07/21 11:51 **Matrix: Solid**
Date Received: 10/09/21 10:00 **Percent Solids: 77.7**

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00319	U	0.00638	0.00319	mg/Kg	☼	10/11/21 11:38	10/19/21 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*	*10/11/21 11:38*	*10/19/21 22:19*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00508	U	0.0214	0.00508	mg/Kg	☼	10/12/21 08:39	10/13/21 16:57	1
Aroclor 1221	0.00508	U	0.0214	0.00508	mg/Kg	☼	10/12/21 08:39	10/13/21 16:57	1
Aroclor 1232	0.00508	U	0.0214	0.00508	mg/Kg	☼	10/12/21 08:39	10/13/21 16:57	1
Aroclor 1242	0.00508	U	0.0214	0.00508	mg/Kg	☼	10/12/21 08:39	10/13/21 16:57	1
Aroclor 1248	0.00508	U	0.0214	0.00508	mg/Kg	☼	10/12/21 08:39	10/13/21 16:57	1
Aroclor 1254	0.00335	U	0.0214	0.00335	mg/Kg	☼	10/12/21 08:39	10/13/21 16:57	1
Aroclor 1260	0.00335	U	0.0214	0.00335	mg/Kg	☼	10/12/21 08:39	10/13/21 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*35 - 140*	*10/12/21 08:39*	*10/13/21 16:57*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*37 - 142*	*10/12/21 08:39*	*10/13/21 16:57*	*1*

Surrogate Summary

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

Job ID: 860-13405-1

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)
860-13405-1	Cell25-21-S-3-4-211007	108	98	104	98
860-13405-1 MS	Cell25-21-S-3-4-211007	98	101	102	102
860-13405-1 MSD	Cell25-21-S-3-4-211007	98	101	102	101
860-13405-2	Cell25-35-S-3-4-211007	104	99	104	98
860-13405-3	Cell25-97-S-3-4-211007	107	98	104	97
860-13405-4	Cell26-101-S-3-4-211007	106	97	104	97
860-13405-5	Cell26-158-S-3-4-211007	106	97	104	96
860-13405-6	Cell26-129-S-3-4-211007	106	99	104	98
860-13405-7	Cell26-49-S-3-4-211007	106	98	105	96
LCS 560-189836/3	Lab Control Sample	99	100	103	100
LCS 560-189869/3	Lab Control Sample	98	100	102	100
LCSD 560-189869/4	Lab Control Sample Dup	99	100	102	102
MB 560-189836/8	Method Blank	105	99	104	96
MB 560-189869/7	Method Blank	106	98	104	97

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)
860-13405-1	Cell25-21-S-3-4-211007	93
860-13405-1 MS	Cell25-21-S-3-4-211007	100
860-13405-2	Cell25-35-S-3-4-211007	90
860-13405-3	Cell25-97-S-3-4-211007	90
860-13405-4	Cell26-101-S-3-4-211007	96
860-13405-5	Cell26-158-S-3-4-211007	96
860-13405-6	Cell26-129-S-3-4-211007	87
860-13405-7	Cell26-49-S-3-4-211007	99
LCS 860-27086/3	Lab Control Sample	97
LCS 860-27211/3	Lab Control Sample	93
LCSD 860-27086/4	Lab Control Sample Dup	99
LCSD 860-27211/4	Lab Control Sample Dup	97
MB 860-27086/9	Method Blank	91
MB 860-27211/9	Method Blank	87

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

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)						
860-13405-1	Cell25-21-S-3-4-211007	109						
860-13405-1 MS	Cell25-21-S-3-4-211007	119						
860-13405-1 MSD	Cell25-21-S-3-4-211007	120						
860-13405-2	Cell25-35-S-3-4-211007	127						
860-13405-3	Cell25-97-S-3-4-211007	109						
860-13405-4	Cell26-101-S-3-4-211007	111						
860-13405-5	Cell26-158-S-3-4-211007	114						
860-13405-6	Cell26-129-S-3-4-211007	112						
860-13405-7	Cell26-49-S-3-4-211007	111						
LCS 400-552381/2-A	Lab Control Sample	119						
MB 400-552381/1-A	Method Blank	119						

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)		
860-13405-1	Cell25-21-S-3-4-211007	83	82	73	83	82	83		
860-13405-2 - RA	Cell25-35-S-3-4-211007	82	86	87	84	88	81		
860-13405-2	Cell25-35-S-3-4-211007	80	82	64	77	78	85		
860-13405-3 - RA	Cell25-97-S-3-4-211007	79	81	79	80	83	77		
860-13405-3	Cell25-97-S-3-4-211007	74	78	59	73	73	82		
860-13405-4 - RA	Cell26-101-S-3-4-211007	81	86	85	82	87	82		
860-13405-4	Cell26-101-S-3-4-211007	78	81	62	75	75	85		
860-13405-5 - RA	Cell26-158-S-3-4-211007	79	84	82	81	86	79		
860-13405-5	Cell26-158-S-3-4-211007	77	79	64	75	75	83		
860-13405-5 MS	Cell26-158-S-3-4-211007	77	81	80	80	82	80		
860-13405-5 MSD	Cell26-158-S-3-4-211007	76	83	81	82	84	78		
860-13405-6 - RA	Cell26-129-S-3-4-211007	83	88	86	83	91	84		
860-13405-6	Cell26-129-S-3-4-211007	79	83	63	78	79	86		
860-13405-7 - RA	Cell26-49-S-3-4-211007	82	87	88	85	88	83		
860-13405-7	Cell26-49-S-3-4-211007	80	82	63	78	77	86		
LCS 860-26116/2-A	Lab Control Sample	77	85	73	78	79	79		
LCS 860-26320/2-A	Lab Control Sample	78	84	82	84	84	82		
LCSD 860-26116/3-A	Lab Control Sample Dup	83	80	76	79	75	81		
LCSD 860-26320/3-A	Lab Control Sample Dup	76	82	80	83	82	80		
MB 860-26116/1-A	Method Blank	80	77	76	82	78	84		
MB 860-26320/1-A	Method Blank	81	85	79	84	81	82		

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)

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
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)	
Lab Sample ID	Client Sample ID	OTPH1 (65-130)	1CO1 (65-130)
860-13405-1	Cell25-21-S-3-4-211007	107	99
860-13405-2	Cell25-35-S-3-4-211007	110	103
860-13405-3	Cell25-97-S-3-4-211007	107	98
860-13405-4	Cell26-101-S-3-4-211007	101	91
860-13405-5	Cell26-158-S-3-4-211007	110	103
860-13405-6	Cell26-129-S-3-4-211007	115	104
860-13405-7	Cell26-49-S-3-4-211007	112	103
LCS 860-26584/2-A - RA	Lab Control Sample	101	120
LCSD 860-26584/3-A - RA	Lab Control Sample Dup	99	118
MB 860-26584/1-A - RA	Method Blank	124	115

Surrogate Legend

OTPH = o-Terphenyl (Surr)
1CO = 1-Chlorooctane

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)
860-13405-1	Cell25-21-S-3-4-211007	69	92
860-13405-1 MS	Cell25-21-S-3-4-211007	73	86
860-13405-1 MSD	Cell25-21-S-3-4-211007	74	87
860-13405-2	Cell25-35-S-3-4-211007	69	90
860-13405-3	Cell25-97-S-3-4-211007	74	82
860-13405-4	Cell26-101-S-3-4-211007	76	88
860-13405-5	Cell26-158-S-3-4-211007	80	82
860-13405-6	Cell26-129-S-3-4-211007	71	87
860-13405-7	Cell26-49-S-3-4-211007	73	82
LCS 860-26133/2-A	Lab Control Sample	75	94
LCSD 860-26133/3-A	Lab Control Sample Dup	71	91
MB 860-26133/1-A	Method Blank	85	103

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)
860-13405-1	Cell25-21-S-3-4-211007	70	89
860-13405-2	Cell25-35-S-3-4-211007	73	87
860-13405-3	Cell25-97-S-3-4-211007	72	86
860-13405-4	Cell26-101-S-3-4-211007	72	95
860-13405-5	Cell26-158-S-3-4-211007	74	94
860-13405-6	Cell26-129-S-3-4-211007	71	92
860-13405-7	Cell26-49-S-3-4-211007	72	89
LCS 860-26133/4-A	Lab Control Sample	72	62

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
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)
LCSD 860-26133/5-A	Lab Control Sample Dup	76	64
MB 860-26133/1-A	Method Blank	78	65

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)
860-13405-1	Cell25-21-S-3-4-211007	106
860-13405-1 MS	Cell25-21-S-3-4-211007	101
860-13405-1 MSD	Cell25-21-S-3-4-211007	100
860-13405-2	Cell25-35-S-3-4-211007	102
860-13405-2 DU	Cell25-35-S-3-4-211007	103
860-13405-2 TRL	Cell25-35-S-3-4-211007	103
860-13405-3	Cell25-97-S-3-4-211007	103
860-13405-4	Cell26-101-S-3-4-211007	102
860-13405-5	Cell26-158-S-3-4-211007	104
860-13405-6	Cell26-129-S-3-4-211007	102
860-13405-7	Cell26-49-S-3-4-211007	104
LCS 280-554181/2-A	Lab Control Sample	100
MB 280-554181/1-A	Method Blank	103

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)
860-13405-1	Cell25-21-S-3-4-211007	100	104
860-13405-2	Cell25-35-S-3-4-211007	102	95
860-13405-3	Cell25-97-S-3-4-211007	101	102
860-13405-4	Cell26-101-S-3-4-211007	99	100
860-13405-5	Cell26-158-S-3-4-211007	101	99
860-13405-6	Cell26-129-S-3-4-211007	101	103
860-13405-6 MS	Cell26-129-S-3-4-211007	97	98
860-13405-6 MSD	Cell26-129-S-3-4-211007	98	104
860-13405-7	Cell26-49-S-3-4-211007	102	98
DLCK 280-539536/13	Lab Control Sample	106	100
LCS 280-553597/2-A	Lab Control Sample	104	102
MB 280-553597/1-A	Method Blank	102	106

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: 860-13405-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-189836/8
Matrix: Solid
Analysis Batch: 189836

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			10/13/21 16:46	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			10/13/21 16:46	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			10/13/21 16:46	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			10/13/21 16:46	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			10/13/21 16:46	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			10/13/21 16:46	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			10/13/21 16:46	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			10/13/21 16:46	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			10/13/21 16:46	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			10/13/21 16:46	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			10/13/21 16:46	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			10/13/21 16:46	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			10/13/21 16:46	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			10/13/21 16:46	1
Benzene	0.630	U	5.00	0.630	ug/Kg			10/13/21 16:46	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			10/13/21 16:46	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			10/13/21 16:46	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			10/13/21 16:46	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			10/13/21 16:46	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			10/13/21 16:46	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			10/13/21 16:46	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			10/13/21 16:46	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			10/13/21 16:46	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			10/13/21 16:46	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			10/13/21 16:46	1
Toluene	0.900	U	5.00	0.900	ug/Kg			10/13/21 16:46	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			10/13/21 16:46	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			10/13/21 16:46	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			10/13/21 16:46	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			10/13/21 16:46	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			10/13/21 16:46	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			10/13/21 16:46	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			10/13/21 16:46	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			10/13/21 16:46	1
Styrene	0.300	U	5.00	0.300	ug/Kg			10/13/21 16:46	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			10/13/21 16:46	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			10/13/21 16:46	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			10/13/21 16:46	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			10/13/21 16:46	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			10/13/21 16:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 152*		*10/13/21 16:46*	*1*
Toluene-d8 (Surr)	*99*		*65 - 139*		*10/13/21 16:46*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 136*		*10/13/21 16:46*	*1*
4-Bromofluorobenzene (Surr)	*96*		*61 - 142*		*10/13/21 16:46*	*1*

QC Sample Results

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

Job ID: 860-13405-1

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

Lab Sample ID: LCS 560-189836/3
Matrix: Solid
Analysis Batch: 189836

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	21.20		ug/Kg		53	13 - 130
Chloromethane	40.0	30.64		ug/Kg		77	61 - 137
Vinyl chloride	40.0	34.47		ug/Kg		86	65 - 139
Bromomethane	40.0	36.06		ug/Kg		90	57 - 155
Trichlorofluoromethane	40.0	34.00		ug/Kg		85	68 - 146
Acrolein	395	481.8		ug/Kg		122	20 - 150
1,1-Dichloroethene	40.0	33.87		ug/Kg		85	70 - 130
trans-1,2-Dichloroethene	40.0	34.94		ug/Kg		87	70 - 132
Methyl tert-butyl ether	40.0	32.48		ug/Kg		81	70 - 130
1,3-Dichlorobenzene	40.0	34.30		ug/Kg		86	70 - 130
Methylene Chloride	40.0	31.87		ug/Kg		80	61 - 150
Acrylonitrile	400	350.9		ug/Kg		88	66 - 137
cis-1,2-Dichloroethene	40.0	35.11		ug/Kg		88	70 - 130
Carbon tetrachloride	40.0	35.31		ug/Kg		88	70 - 136
Benzene	40.0	34.12		ug/Kg		85	70 - 131
1,2-Dichloroethane	40.0	32.66		ug/Kg		82	70 - 130
Trichloroethene	40.0	34.80		ug/Kg		87	70 - 130
1,1,1-Trichloroethane	40.0	35.33		ug/Kg		88	70 - 132
1,1-Dichloroethane	40.0	33.83		ug/Kg		85	70 - 130
1,2-Dichloropropane	40.0	34.06		ug/Kg		85	70 - 130
1,4-Dioxane	800	694.1		ug/Kg		87	10 - 150
Chloroform	40.0	33.78		ug/Kg		84	70 - 130
Bromodichloromethane	40.0	35.33		ug/Kg		88	70 - 130
1,1-Dichloropropene	40.0	35.54		ug/Kg		89	70 - 130
cis-1,3-Dichloropropene	40.0	32.55		ug/Kg		81	70 - 130
Toluene	40.0	33.13		ug/Kg		83	70 - 130
trans-1,3-Dichloropropene	40.0	34.99		ug/Kg		87	70 - 131
1,1,2-Trichloroethane	40.0	33.92		ug/Kg		85	70 - 130
Tetrachloroethene	40.0	33.06		ug/Kg		83	70 - 130
1,3-Dichloropropene, Total	80.0	67.55		ug/Kg		84	
1,2-Dibromoethane	40.0	34.03		ug/Kg		85	70 - 130
Monochlorobenzene	40.0	33.46		ug/Kg		84	70 - 130
Ethylbenzene	40.0	35.62		ug/Kg		89	70 - 130
Xylenes, Total	80.0	74.04		ug/Kg		93	70 - 130
Styrene	40.0	36.39		ug/Kg		91	70 - 130
Tribromomethane	40.0	34.09		ug/Kg		85	59 - 137
1,1,2,2-Tetrachloroethane	40.0	34.82		ug/Kg		87	70 - 130
1,4-Dichlorobenzene	40.0	33.60		ug/Kg		84	70 - 130
1,2-Dichlorobenzene	40.0	34.81		ug/Kg		87	70 - 130
1,2,4-Trichlorobenzene	40.0	38.52		ug/Kg		96	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*65 - 152*
Toluene-d8 (Surr)	*100*		*65 - 139*
Dibromofluoromethane (Surr)	*103*		*50 - 136*
4-Bromofluorobenzene (Surr)	*100*		*61 - 142*

QC Sample Results

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

Job ID: 860-13405-1

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

Lab Sample ID: 860-13405-1 MS
Matrix: Solid
Analysis Batch: 189836

Client Sample ID: Cell25-21-S-3-4-211007
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.717	U	37.6	18.42		ug/Kg		49	13 - 130
Chloromethane	1.18	U	37.6	27.34		ug/Kg		73	61 - 137
Vinyl chloride	0.589	U	37.6	30.85		ug/Kg		82	65 - 139
Bromomethane	1.08	U	37.6	32.54		ug/Kg		87	57 - 155
Trichlorofluoromethane	0.491	U	37.6	31.18		ug/Kg		83	68 - 146
Acrolein	8.45	U *	371	365.0		ug/Kg		98	20 - 150
1,1-Dichloroethene	0.491	U	37.6	31.12		ug/Kg		83	70 - 130
trans-1,2-Dichloroethene	0.491	U	37.6	33.02		ug/Kg		88	70 - 132
Methyl tert-butyl ether	0.599	U	37.6	31.09		ug/Kg		83	70 - 130
1,3-Dichlorobenzene	0.305	U	37.6	33.72		ug/Kg		90	70 - 130
Methylene Chloride	4.91	U	37.6	29.39		ug/Kg		78	61 - 150
Acrylonitrile	3.54	U	376	298.1		ug/Kg		79	66 - 137
cis-1,2-Dichloroethene	0.560	U	37.6	33.27		ug/Kg		89	70 - 130
Carbon tetrachloride	0.501	U	37.6	32.86		ug/Kg		87	70 - 136
Benzene	0.619	U	37.6	32.55		ug/Kg		87	70 - 131
1,2-Dichloroethane	0.511	U	37.6	30.09		ug/Kg		80	70 - 130
Trichloroethene	0.275	U	37.6	33.53		ug/Kg		89	70 - 130
1,1,1-Trichloroethane	0.491	U	37.6	33.37		ug/Kg		89	70 - 132
1,1-Dichloroethane	0.580	U	37.6	31.73		ug/Kg		84	70 - 130
1,2-Dichloropropane	0.491	U	37.6	32.32		ug/Kg		86	70 - 130
1,4-Dioxane	18.7	U	752	654.2		ug/Kg		87	10 - 150
Chloroform	0.855	U	37.6	31.90		ug/Kg		85	70 - 130
Bromodichloromethane	0.196	U	37.6	32.90		ug/Kg		88	70 - 130
1,1-Dichloropropene	0.511	U	37.6	34.33		ug/Kg		91	70 - 130
cis-1,3-Dichloropropene	0.442	U	37.6	31.18		ug/Kg		83	70 - 130
Toluene	0.884	U	37.6	32.29		ug/Kg		86	70 - 130
trans-1,3-Dichloropropene	0.511	U	37.6	32.90		ug/Kg		88	70 - 131
1,1,2-Trichloroethane	0.491	U	37.6	31.82		ug/Kg		85	70 - 130
Tetrachloroethene	0.727	U	37.6	33.10		ug/Kg		88	70 - 130
1,3-Dichloropropene, Total	0.511	U	75.2	64.08		ug/Kg		85	
1,2-Dibromoethane	0.295	U	37.6	31.74		ug/Kg		84	70 - 130
Monochlorobenzene	0.295	U	37.6	32.34		ug/Kg		86	70 - 130
Ethylbenzene	0.442	U	37.6	35.22		ug/Kg		94	70 - 130
Xylenes, Total	0.491	U	75.2	72.83		ug/Kg		97	70 - 130
Styrene	0.295	U	37.6	35.05		ug/Kg		93	70 - 130
Tribromomethane	0.501	U	37.6	31.77		ug/Kg		85	59 - 137
1,1,2,2-Tetrachloroethane	0.373	U	37.6	32.30		ug/Kg		86	70 - 130
1,4-Dichlorobenzene	0.314	U	37.6	32.54		ug/Kg		87	70 - 130
1,2-Dichlorobenzene	0.246	U	37.6	32.99		ug/Kg		88	70 - 130
1,2,4-Trichlorobenzene	0.953	U	37.6	33.91		ug/Kg		90	68 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*65 - 152*
Toluene-d8 (Surr)	*101*		*65 - 139*
Dibromofluoromethane (Surr)	*102*		*50 - 136*
4-Bromofluorobenzene (Surr)	*102*		*61 - 142*

QC Sample Results

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

Job ID: 860-13405-1

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

Lab Sample ID: 860-13405-1 MSD
Matrix: Solid
Analysis Batch: 189836

Client Sample ID: Cell25-21-S-3-4-211007
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	0.717	U	38.8	18.07		ug/Kg		47	13 - 130	2	40.0
Chloromethane	1.18	U	38.8	26.74		ug/Kg		69	61 - 137	2	40.0
Vinyl chloride	0.589	U	38.8	30.37		ug/Kg		78	65 - 139	2	40.0
Bromomethane	1.08	U	38.8	33.17		ug/Kg		86	57 - 155	2	40.0
Trichlorofluoromethane	0.491	U	38.8	31.68		ug/Kg		82	68 - 146	2	40.0
Acrolein	8.45	U *	383	300.3		ug/Kg		78	20 - 150	19	40.0
1,1-Dichloroethene	0.491	U	38.8	31.54		ug/Kg		81	70 - 130	1	40.0
trans-1,2-Dichloroethene	0.491	U	38.8	32.97		ug/Kg		85	70 - 132	0	40.0
Methyl tert-butyl ether	0.599	U	38.8	31.11		ug/Kg		80	70 - 130	0	40.0
1,3-Dichlorobenzene	0.305	U	38.8	33.79		ug/Kg		87	70 - 130	0	40.0
Methylene Chloride	4.91	U	38.8	29.98		ug/Kg		77	61 - 150	2	40.0
Acrylonitrile	3.54	U	388	299.0		ug/Kg		77	66 - 137	0	40.0
cis-1,2-Dichloroethene	0.560	U	38.8	33.07		ug/Kg		85	70 - 130	1	40.0
Carbon tetrachloride	0.501	U	38.8	34.20		ug/Kg		88	70 - 136	4	40.0
Benzene	0.619	U	38.8	32.45		ug/Kg		84	70 - 131	0	40.0
1,2-Dichloroethane	0.511	U	38.8	30.45		ug/Kg		79	70 - 130	1	40.0
Trichloroethene	0.275	U	38.8	33.52		ug/Kg		86	70 - 130	0	40.0
1,1,1-Trichloroethane	0.491	U	38.8	33.25		ug/Kg		86	70 - 132	0	40.0
1,1-Dichloroethane	0.580	U	38.8	32.03		ug/Kg		83	70 - 130	1	40.0
1,2-Dichloropropane	0.491	U	38.8	32.10		ug/Kg		83	70 - 130	1	40.0
1,4-Dioxane	18.7	U	775	656.9		ug/Kg		85	10 - 150	0	40.0
Chloroform	0.855	U	38.8	32.22		ug/Kg		83	70 - 130	1	40.0
Bromodichloromethane	0.196	U	38.8	32.55		ug/Kg		84	70 - 130	1	40.0
1,1-Dichloropropene	0.511	U	38.8	33.97		ug/Kg		88	70 - 130	1	40.0
cis-1,3-Dichloropropene	0.442	U	38.8	31.26		ug/Kg		81	70 - 130	0	40.0
Toluene	0.884	U	38.8	32.49		ug/Kg		84	70 - 130	1	40.0
trans-1,3-Dichloropropene	0.511	U	38.8	33.32		ug/Kg		86	70 - 131	1	40.0
1,1,2-Trichloroethane	0.491	U	38.8	31.98		ug/Kg		83	70 - 130	1	40.0
Tetrachloroethene	0.727	U	38.8	34.10		ug/Kg		88	70 - 130	3	40.0
1,3-Dichloropropene, Total	0.511	U	77.5	64.58		ug/Kg		83		1	40.0
1,2-Dibromoethane	0.295	U	38.8	31.96		ug/Kg		82	70 - 130	1	40.0
Monochlorobenzene	0.295	U	38.8	32.44		ug/Kg		84	70 - 130	0	40.0
Ethylbenzene	0.442	U	38.8	35.16		ug/Kg		91	70 - 130	0	40.0
Xylenes, Total	0.491	U	77.5	72.85		ug/Kg		94	70 - 130	0	40.0
Styrene	0.295	U	38.8	34.77		ug/Kg		90	70 - 130	1	40.0
Tribromomethane	0.501	U	38.8	31.78		ug/Kg		82	59 - 137	0	40.0
1,1,2,2-Tetrachloroethane	0.373	U	38.8	33.08		ug/Kg		85	70 - 130	2	40.0
1,4-Dichlorobenzene	0.314	U	38.8	32.46		ug/Kg		84	70 - 130	0	40.0
1,2-Dichlorobenzene	0.246	U	38.8	33.38		ug/Kg		86	70 - 130	1	40.0
1,2,4-Trichlorobenzene	0.953	U	38.8	35.02		ug/Kg		90	68 - 140	3	40.0

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*65 - 152*
Toluene-d8 (Surr)	*101*		*65 - 139*
Dibromofluoromethane (Surr)	*102*		*50 - 136*
4-Bromofluorobenzene (Surr)	*101*		*61 - 142*

QC Sample Results

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

Job ID: 860-13405-1

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

Lab Sample ID: MB 560-189869/7
Matrix: Solid
Analysis Batch: 189869

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			10/14/21 14:29	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			10/14/21 14:29	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			10/14/21 14:29	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			10/14/21 14:29	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			10/14/21 14:29	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			10/14/21 14:29	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			10/14/21 14:29	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			10/14/21 14:29	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			10/14/21 14:29	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			10/14/21 14:29	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			10/14/21 14:29	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			10/14/21 14:29	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			10/14/21 14:29	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			10/14/21 14:29	1
Benzene	0.630	U	5.00	0.630	ug/Kg			10/14/21 14:29	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			10/14/21 14:29	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			10/14/21 14:29	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			10/14/21 14:29	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			10/14/21 14:29	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			10/14/21 14:29	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			10/14/21 14:29	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			10/14/21 14:29	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			10/14/21 14:29	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			10/14/21 14:29	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			10/14/21 14:29	1
Toluene	0.900	U	5.00	0.900	ug/Kg			10/14/21 14:29	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			10/14/21 14:29	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			10/14/21 14:29	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			10/14/21 14:29	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			10/14/21 14:29	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			10/14/21 14:29	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			10/14/21 14:29	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			10/14/21 14:29	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			10/14/21 14:29	1
Styrene	0.300	U	5.00	0.300	ug/Kg			10/14/21 14:29	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			10/14/21 14:29	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			10/14/21 14:29	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			10/14/21 14:29	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			10/14/21 14:29	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			10/14/21 14:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 152*		*10/14/21 14:29*	*1*
Toluene-d8 (Surr)	*98*		*65 - 139*		*10/14/21 14:29*	*1*
Dibromofluoromethane (Surr)	*104*		*50 - 136*		*10/14/21 14:29*	*1*
4-Bromofluorobenzene (Surr)	*97*		*61 - 142*		*10/14/21 14:29*	*1*

QC Sample Results

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

Job ID: 860-13405-1

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

Lab Sample ID: LCS 560-189869/3
Matrix: Solid
Analysis Batch: 189869

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	19.18		ug/Kg		48	13 - 130
Chloromethane	40.0	30.15		ug/Kg		75	61 - 137
Vinyl chloride	40.0	34.44		ug/Kg		86	65 - 139
Bromomethane	40.0	36.15		ug/Kg		90	57 - 155
Trichlorofluoromethane	40.0	34.86		ug/Kg		87	68 - 146
Acrolein	395	537.5		ug/Kg		136	20 - 150
1,1-Dichloroethene	40.0	35.69		ug/Kg		89	70 - 130
trans-1,2-Dichloroethene	40.0	37.41		ug/Kg		94	70 - 132
Methyl tert-butyl ether	40.0	37.84		ug/Kg		95	70 - 130
1,3-Dichlorobenzene	40.0	37.53		ug/Kg		94	70 - 130
Methylene Chloride	40.0	34.34		ug/Kg		86	61 - 150
Acrylonitrile	400	383.5		ug/Kg		96	66 - 137
cis-1,2-Dichloroethene	40.0	37.56		ug/Kg		94	70 - 130
Carbon tetrachloride	40.0	37.99		ug/Kg		95	70 - 136
Benzene	40.0	37.02		ug/Kg		93	70 - 131
1,2-Dichloroethane	40.0	35.00		ug/Kg		88	70 - 130
Trichloroethene	40.0	37.78		ug/Kg		94	70 - 130
1,1,1-Trichloroethane	40.0	37.81		ug/Kg		95	70 - 132
1,1-Dichloroethane	40.0	36.37		ug/Kg		91	70 - 130
1,2-Dichloropropane	40.0	37.35		ug/Kg		93	70 - 130
1,4-Dioxane	800	757.2		ug/Kg		95	10 - 150
Chloroform	40.0	36.55		ug/Kg		91	70 - 130
Bromodichloromethane	40.0	37.81		ug/Kg		95	70 - 130
1,1-Dichloropropene	40.0	38.59		ug/Kg		96	70 - 130
cis-1,3-Dichloropropene	40.0	35.75		ug/Kg		89	70 - 130
Toluene	40.0	36.40		ug/Kg		91	70 - 130
trans-1,3-Dichloropropene	40.0	38.24		ug/Kg		96	70 - 131
1,1,2-Trichloroethane	40.0	36.83		ug/Kg		92	70 - 130
Tetrachloroethene	40.0	35.70		ug/Kg		89	70 - 130
1,3-Dichloropropene, Total	80.0	73.99		ug/Kg		92	
1,2-Dibromoethane	40.0	37.32		ug/Kg		93	70 - 130
Monochlorobenzene	40.0	36.54		ug/Kg		91	70 - 130
Ethylbenzene	40.0	39.30		ug/Kg		98	70 - 130
Xylenes, Total	80.0	81.35		ug/Kg		102	70 - 130
Styrene	40.0	39.73		ug/Kg		99	70 - 130
Tribromomethane	40.0	37.18		ug/Kg		93	59 - 137
1,1,2,2-Tetrachloroethane	40.0	38.31		ug/Kg		96	70 - 130
1,4-Dichlorobenzene	40.0	36.27		ug/Kg		91	70 - 130
1,2-Dichlorobenzene	40.0	37.68		ug/Kg		94	70 - 130
1,2,4-Trichlorobenzene	40.0	41.06		ug/Kg		103	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*65 - 152*
Toluene-d8 (Surr)	*100*		*65 - 139*
Dibromofluoromethane (Surr)	*102*		*50 - 136*
4-Bromofluorobenzene (Surr)	*100*		*61 - 142*

QC Sample Results

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

Job ID: 860-13405-1

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

Lab Sample ID: LCSD 560-189869/4
Matrix: Solid
Analysis Batch: 189869

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	18.77		ug/Kg		47	13 - 130	2	30.0
Chloromethane			40.0	33.21		ug/Kg		83	61 - 137	10	30.0
Vinyl chloride			40.0	37.20		ug/Kg		93	65 - 139	8	30.0
Bromomethane			40.0	40.33		ug/Kg		101	57 - 155	11	30.0
Trichlorofluoromethane			40.0	38.74		ug/Kg		97	68 - 146	11	30.0
Acrolein			395	607.8	*	ug/Kg		154	20 - 150	12	30.0
1,1-Dichloroethene			40.0	40.20		ug/Kg		101	70 - 130	12	30.0
trans-1,2-Dichloroethene			40.0	41.89		ug/Kg		105	70 - 132	11	30.0
Methyl tert-butyl ether			40.0	41.37		ug/Kg		103	70 - 130	9	30.0
1,3-Dichlorobenzene			40.0	41.83		ug/Kg		105	70 - 130	11	30.0
Methylene Chloride			40.0	39.09		ug/Kg		98	61 - 150	13	30.0
Acrylonitrile			400	438.9		ug/Kg		110	66 - 137	13	30.0
cis-1,2-Dichloroethene			40.0	42.77		ug/Kg		107	70 - 130	13	30.0
Carbon tetrachloride			40.0	41.76		ug/Kg		104	70 - 136	9	30.0
Benzene			40.0	41.50		ug/Kg		104	70 - 131	11	30.0
1,2-Dichloroethane			40.0	39.66		ug/Kg		99	70 - 130	12	30.0
Trichloroethene			40.0	41.93		ug/Kg		105	70 - 130	10	30.0
1,1,1-Trichloroethane			40.0	42.09		ug/Kg		105	70 - 132	11	30.0
1,1-Dichloroethane			40.0	41.04		ug/Kg		103	70 - 130	12	30.0
1,2-Dichloropropane			40.0	42.07		ug/Kg		105	70 - 130	12	30.0
1,4-Dioxane			800	840.9		ug/Kg		105	10 - 150	10	30.0
Chloroform			40.0	41.09		ug/Kg		103	70 - 130	12	30.0
Bromodichloromethane			40.0	43.42		ug/Kg		109	70 - 130	14	30.0
1,1-Dichloropropene			40.0	42.76		ug/Kg		107	70 - 130	10	30.0
cis-1,3-Dichloropropene			40.0	41.19		ug/Kg		103	70 - 130	14	30.0
Toluene			40.0	40.63		ug/Kg		102	70 - 130	11	30.0
trans-1,3-Dichloropropene			40.0	44.18		ug/Kg		110	70 - 131	14	30.0
1,1,2-Trichloroethane			40.0	42.58		ug/Kg		106	70 - 130	14	30.0
Tetrachloroethene			40.0	43.32		ug/Kg		108	70 - 130	19	30.0
1,3-Dichloropropene, Total			80.0	85.38		ug/Kg		107		14	30
1,2-Dibromoethane			40.0	42.38		ug/Kg		106	70 - 130	13	30.0
Monochlorobenzene			40.0	40.74		ug/Kg		102	70 - 130	11	30.0
Ethylbenzene			40.0	43.78		ug/Kg		109	70 - 130	11	30.0
Xylenes, Total			80.0	90.49		ug/Kg		113	70 - 130	11	30.0
Styrene			40.0	44.36		ug/Kg		111	70 - 130	11	30.0
Tribromomethane			40.0	41.96		ug/Kg		105	59 - 137	12	30.0
1,1,2,2-Tetrachloroethane			40.0	43.73		ug/Kg		109	70 - 130	13	30.0
1,4-Dichlorobenzene			40.0	40.59		ug/Kg		101	70 - 130	11	30.0
1,2-Dichlorobenzene			40.0	42.53		ug/Kg		106	70 - 130	12	30.0
1,2,4-Trichlorobenzene			40.0	45.38		ug/Kg		113	68 - 140	10	30.0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*65 - 152*
Toluene-d8 (Surr)	*100*		*65 - 139*
Dibromofluoromethane (Surr)	*102*		*50 - 136*
4-Bromofluorobenzene (Surr)	*102*		*61 - 142*

QC Sample Results

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

Job ID: 860-13405-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 860-13405-1 MS
Matrix: Solid
Analysis Batch: 27211

Client Sample ID: Cell25-21-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 26001

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane (P-Dioxane)	0.00348	U	0.0699	0.1595	N1	mg/Kg	☼	228	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*

Lab Sample ID: MB 860-27086/9
Matrix: Solid
Analysis Batch: 27086

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			10/19/21 10:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*		*10/19/21 10:44*	*1*

Lab Sample ID: LCS 860-27086/3
Matrix: Solid
Analysis Batch: 27086

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	0.04177		mg/Kg		84	65 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*

Lab Sample ID: LCSD 860-27086/4
Matrix: Solid
Analysis Batch: 27086

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	0.04024		mg/Kg		80	65 - 135	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*

Lab Sample ID: MB 860-27211/9
Matrix: Solid
Analysis Batch: 27211

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			10/19/21 20:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*63 - 144*		*10/19/21 20:54*	*1*

QC Sample Results

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

Job ID: 860-13405-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-27211/3
Matrix: Solid
Analysis Batch: 27211

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	0.05123		mg/Kg		102	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*63 - 144*

Lab Sample ID: LCSD 860-27211/4
Matrix: Solid
Analysis Batch: 27211

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	0.04314		mg/Kg		86	65 - 135	17	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-552381/1-A
Matrix: Solid
Analysis Batch: 552598

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 552381

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		10/21/21 07:41	10/22/21 20:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*119*		*30 - 164*	*10/21/21 07:41*	*10/22/21 20:32*	*1*

Lab Sample ID: LCS 400-552381/2-A
Matrix: Solid
Analysis Batch: 552598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 552381

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	302.7		ug/Kg		91	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*119*		*30 - 164*

Lab Sample ID: 860-13405-1 MS
Matrix: Solid
Analysis Batch: 552737

Client Sample ID: Cell25-21-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 552381

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon	11.8	U	327	308.1		ug/Kg		94	40 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Triphenylphosphate	*119*		*30 - 164*

QC Sample Results

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

Job ID: 860-13405-1

Method: 8270D - Pesticides by GC/MS (Continued)

Lab Sample ID: 860-13405-1 MSD
Matrix: Solid
Analysis Batch: 552737

Client Sample ID: Cell25-21-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 552381

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Prometon	11.8	U	330	307.8		ug/Kg		93	40 - 140	0	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Triphenylphosphate	*120*		*30 - 164*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-26116/1-A
Matrix: Solid
Analysis Batch: 26121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26116

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		10/12/21 07:45	10/12/21 16:46	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		10/12/21 07:45	10/12/21 16:46	1

QC Sample Results

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

Job ID: 860-13405-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-26116/1-A
Matrix: Solid
Analysis Batch: 26121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/12/21 07:45	10/12/21 16:46	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/12/21 07:45	10/12/21 16:46	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/12/21 07:45	10/12/21 16:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*30 - 115*	*10/12/21 07:45*	*10/12/21 16:46*	*1*
2-Fluorophenol	*77*		*25 - 121*	*10/12/21 07:45*	*10/12/21 16:46*	*1*
2,4,6-Tribromophenol	*76*		*19 - 122*	*10/12/21 07:45*	*10/12/21 16:46*	*1*
Nitrobenzene-d5	*82*		*23 - 129*	*10/12/21 07:45*	*10/12/21 16:46*	*1*
Phenol-d5 (Surr)	*78*		*24 - 113*	*10/12/21 07:45*	*10/12/21 16:46*	*1*
p-Terphenyl-d14 (Surr)	*84*		*18 - 137*	*10/12/21 07:45*	*10/12/21 16:46*	*1*

Lab Sample ID: LCS 860-26116/2-A
Matrix: Solid
Analysis Batch: 26121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26116

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	1252		ug/Kg		94	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	1060		ug/Kg		80	35 - 135
1-Methylnaphthalene	1330	1023		ug/Kg		77	38 - 127
bis (2-chloroisopropyl) ether	1330	1138		ug/Kg		85	25 - 124
2,4,5-Trichlorophenol	1330	1222		ug/Kg		92	40 - 135
2,4,6-Trichlorophenol	1330	1153		ug/Kg		86	39 - 139
2,4-Dinitrotoluene	1330	1185		ug/Kg		89	48 - 131
Dinitrophenols	1330	964.1		ug/Kg		72	19 - 131
2,4-Dichlorophenol	1330	1163		ug/Kg		87	36 - 135
2,6-Dinitrotoluene	1330	1088		ug/Kg		82	42 - 136
Dichlorobenzidine, 3,3'-	1330	1009		ug/Kg		76	35 - 134
4,6-Dinitro-2-methylphenol	1330	1144		ug/Kg		86	30 - 146
Acenaphthene	1330	1138		ug/Kg		85	37 - 131
Anthracene	1330	1126		ug/Kg		84	39 - 139
Acenaphthylene	1330	1141		ug/Kg		86	39 - 129
Benzo[a]anthracene	1330	1074		ug/Kg		81	44 - 135
Benzo[b]fluoranthene	1330	1097		ug/Kg		82	40 - 153
Benzo[k]fluoranthene	1330	1206		ug/Kg		90	33 - 156
Benzo[g,h,i]perylene	1330	1198		ug/Kg		90	40 - 153

QC Sample Results

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

Job ID: 860-13405-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-26116/2-A
Matrix: Solid
Analysis Batch: 26121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26116

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	1330	1165		ug/Kg		87	43 - 153
Di (2-ethylhexyl)phthalate	1330	1194		ug/Kg		90	46 - 145
Bis(2-chloroethyl)ether	1330	1223		ug/Kg		92	33 - 127
Chrysene	1330	1097		ug/Kg		82	42 - 135
Dibutylphthalate	1330	1129		ug/Kg		85	43 - 142
Dibenz(a,h)anthracene	1330	1233		ug/Kg		92	41 - 155
Diethyl phthalate	1330	1145		ug/Kg		86	45 - 131
Dimethyl phthalate	1330	1093		ug/Kg		82	43 - 132
Fluoranthene	1330	1120		ug/Kg		84	41 - 138
Fluorene	1330	1138		ug/Kg		85	41 - 131
Hexachlorobenzene	1330	1051		ug/Kg		79	36 - 142
Hexachlorobutadiene	1330	982.3		ug/Kg		74	35 - 129
Hexachlorocyclopentadiene	1330	728.2		ug/Kg		55	16 - 106
Hexachloroethane	1330	1035		ug/Kg		78	36 - 121
Indeno[1,2,3-cd]pyrene	1330	1213		ug/Kg		91	39 - 154
Isophorone	1330	1071		ug/Kg		80	36 - 128
N-Nitrosodi-n-butylamine	1330	1144		ug/Kg		86	34 - 135
N-Nitrosodiethylamine	1330	1124		ug/Kg		84	36 - 127
N-Nitrosodiphenylamine	1330	1157		ug/Kg		87	27 - 155
N-Nitrosopyrrolidine	1330	1242		ug/Kg		93	38 - 136
Pentachlorobenzene	1330	1049		ug/Kg		79	38 - 136
Pentachlorophenol	1330	753.4		ug/Kg		57	14 - 148
Phenanthrene	1330	1144		ug/Kg		86	37 - 139
Pyrene	1330	1170		ug/Kg		88	42 - 138
Naphthalene	1330	1079		ug/Kg		81	35 - 128
2-Methylnaphthalene	1330	1064		ug/Kg		80	36 - 126
Nitrobenzene	1330	1122		ug/Kg		84	32 - 129
Benzidine	1330	965.8		ug/Kg		72	12 - 112
Phenol	1.33	1.151		mg/Kg		86	34 - 127
N-Nitrosodimethylamine	1330	1103		ug/Kg		83	27 - 126
Atrazine	1330	1088		ug/Kg		82	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1330	1519		ug/Kg		114	30 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*77*		*30 - 115*
2-Fluorophenol	*85*		*25 - 121*
2,4,6-Tribromophenol	*73*		*19 - 122*
Nitrobenzene-d5	*78*		*23 - 129*
Phenol-d5 (Surr)	*79*		*24 - 113*
p-Terphenyl-d14 (Surr)	*79*		*18 - 137*

Lab Sample ID: LCSD 860-26116/3-A
Matrix: Solid
Analysis Batch: 26121

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26116

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	1330	1318		ug/Kg		99	20 - 157	5	30

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QC Sample Results

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

Job ID: 860-13405-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-26116/3-A
Matrix: Solid
Analysis Batch: 26121

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26116

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	1330	1148		ug/Kg		86	35 - 135	8	30
1-Methylnaphthalene	1330	1052		ug/Kg		79	38 - 127	3	30
bis (2-chloroisopropyl) ether	1330	1091		ug/Kg		82	25 - 124	4	30
2,4,5-Trichlorophenol	1330	1254		ug/Kg		94	40 - 135	3	30
2,4,6-Trichlorophenol	1330	1189		ug/Kg		89	39 - 139	3	30
2,4-Dinitrotoluene	1330	1162		ug/Kg		87	48 - 131	2	30
Dinitrophenols	1330	1051		ug/Kg		79	19 - 131	9	40
2,4-Dichlorophenol	1330	1151		ug/Kg		86	36 - 135	1	30
2,6-Dinitrotoluene	1330	1103		ug/Kg		83	42 - 136	1	30
Dichlorobenzidine, 3,3'-	1330	1033		ug/Kg		77	35 - 134	2	40
4,6-Dinitro-2-methylphenol	1330	1218		ug/Kg		91	30 - 146	6	40
Acenaphthene	1330	1141		ug/Kg		86	37 - 131	0	30
Anthracene	1330	1199		ug/Kg		90	39 - 139	6	30
Acenaphthylene	1330	1133		ug/Kg		85	39 - 129	1	30
Benzo[a]anthracene	1330	1115		ug/Kg		84	44 - 135	4	30
Benzo[b]fluoranthene	1330	1092		ug/Kg		82	40 - 153	1	30
Benzo[k]fluoranthene	1330	1230		ug/Kg		92	33 - 156	2	30
Benzo[g,h,i]perylene	1330	1207		ug/Kg		91	40 - 153	1	30
Benzo[a]pyrene	1330	1155		ug/Kg		87	43 - 153	1	30
Di (2-ethylhexyl)phthalate	1330	1223		ug/Kg		92	46 - 145	2	30
Bis(2-chloroethyl)ether	1330	1120		ug/Kg		84	33 - 127	9	30
Chrysene	1330	1130		ug/Kg		85	42 - 135	3	30
Dibutylphthalate	1330	1163		ug/Kg		87	43 - 142	3	30
Dibenz(a,h)anthracene	1330	1224		ug/Kg		92	41 - 155	1	30
Diethyl phthalate	1330	1135		ug/Kg		85	45 - 131	1	30
Dimethyl phthalate	1330	1106		ug/Kg		83	43 - 132	1	30
Fluoranthene	1330	1127		ug/Kg		84	41 - 138	1	30
Fluorene	1330	1145		ug/Kg		86	41 - 131	1	30
Hexachlorobenzene	1330	1080		ug/Kg		81	36 - 142	3	30
Hexachlorobutadiene	1330	1007		ug/Kg		76	35 - 129	2	30
Hexachlorocyclopentadiene	1330	735.3		ug/Kg		55	16 - 106	1	30
Hexachloroethane	1330	1014		ug/Kg		76	36 - 121	2	30
Indeno[1,2,3-cd]pyrene	1330	1213		ug/Kg		91	39 - 154	0	30
Isophorone	1330	1061		ug/Kg		80	36 - 128	1	30
N-Nitrosodi-n-butylamine	1330	1141		ug/Kg		86	34 - 135	0	30
N-Nitrosodiethylamine	1330	1106		ug/Kg		83	36 - 127	2	30
N-Nitrosodiphenylamine	1330	1242		ug/Kg		93	27 - 155	7	30
N-Nitrosopyrrolidine	1330	1167		ug/Kg		88	38 - 136	6	30
Pentachlorobenzene	1330	1079		ug/Kg		81	38 - 136	3	30
Pentachlorophenol	1330	743.9		ug/Kg		56	14 - 148	1	40
Phenanthrene	1330	1166		ug/Kg		87	37 - 139	2	30
Pyrene	1330	1192		ug/Kg		89	42 - 138	2	30
Naphthalene	1330	1077		ug/Kg		81	35 - 128	0	30
2-Methylnaphthalene	1330	1077		ug/Kg		81	36 - 126	1	30
Nitrobenzene	1330	1153		ug/Kg		87	32 - 129	3	30
Benzidine	1330	968.1		ug/Kg		73	12 - 112	0	40
Phenol	1.33	1.043		mg/Kg		78	34 - 127	10	40
N-Nitrosodimethylamine	1330	1073		ug/Kg		80	27 - 126	3	30
Atrazine	1330	1137		ug/Kg		85	18 - 134	4	40

QC Sample Results

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

Job ID: 860-13405-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-26116/3-A
Matrix: Solid
Analysis Batch: 26121

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26116

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thiophene, tetrahydro-, 1,1-dioxide			1330	1464		ug/Kg		110	30 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*83*		*30 - 115*
2-Fluorophenol	*80*		*25 - 121*
2,4,6-Tribromophenol	*76*		*19 - 122*
Nitrobenzene-d5	*79*		*23 - 129*
Phenol-d5 (Surr)	*75*		*24 - 113*
p-Terphenyl-d14 (Surr)	*81*		*18 - 137*

Lab Sample ID: MB 860-26320/1-A
Matrix: Solid
Analysis Batch: 26509

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26320

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		10/13/21 07:51	10/14/21 14:37	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/13/21 07:51	10/14/21 14:37	1

QC Sample Results

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

Job ID: 860-13405-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-26320/1-A
Matrix: Solid
Analysis Batch: 26509

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26320

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/13/21 07:51	10/14/21 14:37	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/13/21 07:51	10/14/21 14:37	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/13/21 07:51	10/14/21 14:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*30 - 115*	*10/13/21 07:51*	*10/14/21 14:37*	*1*
2-Fluorophenol	*85*		*25 - 121*	*10/13/21 07:51*	*10/14/21 14:37*	*1*
2,4,6-Tribromophenol	*79*		*19 - 122*	*10/13/21 07:51*	*10/14/21 14:37*	*1*
Nitrobenzene-d5	*84*		*23 - 129*	*10/13/21 07:51*	*10/14/21 14:37*	*1*
Phenol-d5 (Surr)	*81*		*24 - 113*	*10/13/21 07:51*	*10/14/21 14:37*	*1*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*	*10/13/21 07:51*	*10/14/21 14:37*	*1*

Lab Sample ID: LCS 860-26320/2-A
Matrix: Solid
Analysis Batch: 26507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26320

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	975.1		ug/Kg		73	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	1001		ug/Kg		75	35 - 135
1-Methylnaphthalene	1330	1089		ug/Kg		82	38 - 127
bis (2-chloroisopropyl) ether	1330	951.2		ug/Kg		71	25 - 124
2,4,5-Trichlorophenol	1330	1065		ug/Kg		80	40 - 135
2,4,6-Trichlorophenol	1330	1022		ug/Kg		77	39 - 139
2,4-Dinitrotoluene	1330	1169		ug/Kg		88	48 - 131
Dinitrophenols	1330	1130		ug/Kg		85	19 - 131
2,4-Dichlorophenol	1330	1218		ug/Kg		91	36 - 135
2,6-Dinitrotoluene	1330	1150		ug/Kg		86	42 - 136
Dichlorobenzidine, 3,3'-	1330	1055		ug/Kg		79	35 - 134
4,6-Dinitro-2-methylphenol	1330	1393		ug/Kg		104	30 - 146
Acenaphthene	1330	1034		ug/Kg		78	37 - 131
Anthracene	1330	1105		ug/Kg		83	39 - 139
Acenaphthylene	1330	1082		ug/Kg		81	39 - 129

QC Sample Results

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

Job ID: 860-13405-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-26320/2-A
Matrix: Solid
Analysis Batch: 26507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26320

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	1330	1093		ug/Kg		82	44 - 135
Benzo[b]fluoranthene	1330	1059		ug/Kg		79	40 - 153
Benzo[k]fluoranthene	1330	1243		ug/Kg		93	33 - 156
Benzo[g,h,i]perylene	1330	1201		ug/Kg		90	40 - 153
Benzo[a]pyrene	1330	1021		ug/Kg		77	43 - 153
Di (2-ethylhexyl)phthalate	1330	1029		ug/Kg		77	46 - 145
Bis(2-chloroethyl)ether	1330	1017		ug/Kg		76	33 - 127
Chrysene	1330	1103		ug/Kg		83	42 - 135
Dibutylphthalate	1330	1041		ug/Kg		78	43 - 142
Dibenz(a,h)anthracene	1330	1037		ug/Kg		78	41 - 155
Diethyl phthalate	1330	1159		ug/Kg		87	45 - 131
Dimethyl phthalate	1330	1141		ug/Kg		86	43 - 132
Fluoranthene	1330	1192		ug/Kg		89	41 - 138
Fluorene	1330	1127		ug/Kg		85	41 - 131
Hexachlorobenzene	1330	1068		ug/Kg		80	36 - 142
Hexachlorobutadiene	1330	1039		ug/Kg		78	35 - 129
Hexachlorocyclopentadiene	1330	933.9		ug/Kg		70	16 - 106
Hexachloroethane	1330	1028		ug/Kg		77	36 - 121
Indeno[1,2,3-cd]pyrene	1330	1048		ug/Kg		79	39 - 154
Isophorone	1330	1047		ug/Kg		78	36 - 128
N-Nitrosodi-n-butylamine	1330	1214		ug/Kg		91	34 - 135
N-Nitrosodiethylamine	1330	1086		ug/Kg		81	36 - 127
N-Nitrosodiphenylamine	1330	1089		ug/Kg		82	27 - 155
N-Nitrosopyrrolidine	1330	1190		ug/Kg		89	38 - 136
Pentachlorobenzene	1330	1054		ug/Kg		79	38 - 136
Pentachlorophenol	1330	969.5		ug/Kg		73	14 - 148
Phenanthrene	1330	1059		ug/Kg		79	37 - 139
Pyrene	1330	1070		ug/Kg		80	42 - 138
Naphthalene	1330	1030		ug/Kg		77	35 - 128
2-Methylnaphthalene	1330	1078		ug/Kg		81	36 - 126
Nitrobenzene	1330	1095		ug/Kg		82	32 - 129
Benzidine	1330	493.2		ug/Kg		37	12 - 112
Phenol	1.33	1.116		mg/Kg		84	34 - 127
N-Nitrosodimethylamine	1330	941.4		ug/Kg		71	27 - 126
Atrazine	1330	1299		ug/Kg		97	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1330	994.2		ug/Kg		75	30 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*78*		*30 - 115*
2-Fluorophenol	*84*		*25 - 121*
2,4,6-Tribromophenol	*82*		*19 - 122*
Nitrobenzene-d5	*84*		*23 - 129*
Phenol-d5 (Surr)	*84*		*24 - 113*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*

QC Sample Results

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

Job ID: 860-13405-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-26320/3-A
Matrix: Solid
Analysis Batch: 26507

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26320

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)			1330	958.9		ug/Kg		72	20 - 157	2	30
1,2,4,5-Tetrachlorobenzene			1330	990.7		ug/Kg		74	35 - 135	1	30
1-Methylnaphthalene			1330	1066		ug/Kg		80	38 - 127	2	30
bis (2-chloroisopropyl) ether			1330	924.8		ug/Kg		69	25 - 124	3	30
2,4,5-Trichlorophenol			1330	1051		ug/Kg		79	40 - 135	1	30
2,4,6-Trichlorophenol			1330	1017		ug/Kg		76	39 - 139	1	30
2,4-Dinitrotoluene			1330	1163		ug/Kg		87	48 - 131	1	30
Dinitrophenols			1330	1093		ug/Kg		82	19 - 131	3	40
2,4-Dichlorophenol			1330	1219		ug/Kg		91	36 - 135	0	30
2,6-Dinitrotoluene			1330	1142		ug/Kg		86	42 - 136	1	30
Dichlorobenzidine, 3,3'-			1330	1031		ug/Kg		77	35 - 134	2	40
4,6-Dinitro-2-methylphenol			1330	1374		ug/Kg		103	30 - 146	1	40
Acenaphthene			1330	1034		ug/Kg		78	37 - 131	0	30
Anthracene			1330	1078		ug/Kg		81	39 - 139	3	30
Acenaphthylene			1330	1071		ug/Kg		80	39 - 129	1	30
Benzo[a]anthracene			1330	1067		ug/Kg		80	44 - 135	2	30
Benzo[b]fluoranthene			1330	1046		ug/Kg		78	40 - 153	1	30
Benzo[k]fluoranthene			1330	1205		ug/Kg		90	33 - 156	3	30
Benzo[g,h,i]perylene			1330	1176		ug/Kg		88	40 - 153	2	30
Benzo[a]pyrene			1330	994.7		ug/Kg		75	43 - 153	3	30
Di (2-ethylhexyl)phthalate			1330	1003		ug/Kg		75	46 - 145	3	30
Bis(2-chloroethyl)ether			1330	991.8		ug/Kg		74	33 - 127	2	30
Chrysene			1330	1069		ug/Kg		80	42 - 135	3	30
Dibutylphthalate			1330	1016		ug/Kg		76	43 - 142	2	30
Dibenz(a,h)anthracene			1330	1009		ug/Kg		76	41 - 155	3	30
Diethyl phthalate			1330	1132		ug/Kg		85	45 - 131	2	30
Dimethyl phthalate			1330	1123		ug/Kg		84	43 - 132	2	30
Fluoranthene			1330	1137		ug/Kg		85	41 - 138	5	30
Fluorene			1330	1097		ug/Kg		82	41 - 131	3	30
Hexachlorobenzene			1330	1038		ug/Kg		78	36 - 142	3	30
Hexachlorobutadiene			1330	1034		ug/Kg		78	35 - 129	1	30
Hexachlorocyclopentadiene			1330	920.6		ug/Kg		69	16 - 106	1	30
Hexachloroethane			1330	1005		ug/Kg		75	36 - 121	2	30
Indeno[1,2,3-cd]pyrene			1330	1006		ug/Kg		75	39 - 154	4	30
Isophorone			1330	1040		ug/Kg		78	36 - 128	1	30
N-Nitrosodi-n-butylamine			1330	1205		ug/Kg		90	34 - 135	1	30
N-Nitrosodiethylamine			1330	1069		ug/Kg		80	36 - 127	2	30
N-Nitrosodiphenylamine			1330	1058		ug/Kg		79	27 - 155	3	30
N-Nitrosopyrrolidine			1330	1146		ug/Kg		86	38 - 136	4	30
Pentachlorobenzene			1330	1047		ug/Kg		79	38 - 136	1	30
Pentachlorophenol			1330	939.3		ug/Kg		70	14 - 148	3	40
Phenanthrene			1330	1040		ug/Kg		78	37 - 139	2	30
Pyrene			1330	1043		ug/Kg		78	42 - 138	2	30
Naphthalene			1330	1021		ug/Kg		77	35 - 128	1	30
2-Methylnaphthalene			1330	1059		ug/Kg		79	36 - 126	2	30
Nitrobenzene			1330	1094		ug/Kg		82	32 - 129	0	30
Benzidine			1330	581.5		ug/Kg		44	12 - 112	16	40
Phenol			1.33	1.078		mg/Kg		81	34 - 127	3	40

QC Sample Results

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

Job ID: 860-13405-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-26320/3-A
Matrix: Solid
Analysis Batch: 26507

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26320

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodimethylamine			1330	936.7		ug/Kg		70	27 - 126	0	30
Atrazine			1330	1260		ug/Kg		95	18 - 134	3	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	980.3		ug/Kg		74	30 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*76*		*30 - 115*
2-Fluorophenol	*82*		*25 - 121*
2,4,6-Tribromophenol	*80*		*19 - 122*
Nitrobenzene-d5	*83*		*23 - 129*
Phenol-d5 (Surr)	*82*		*24 - 113*
p-Terphenyl-d14 (Surr)	*80*		*18 - 137*

Lab Sample ID: 860-13405-5 MS
Matrix: Solid
Analysis Batch: 26507

Client Sample ID: Cell26-158-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 26320

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	967.0		ug/Kg		73	20 - 157
1,2,4,5-Tetrachlorobenzene	16.4	U	1330	989.2		ug/Kg		74	35 - 135
1-Methylnaphthalene	26.6	U	1330	1074		ug/Kg		81	38 - 127
bis (2-chloroisopropyl) ether	17.7	U	1330	926.8		ug/Kg		70	25 - 124
2,4,5-Trichlorophenol	19.0	U	1330	1030		ug/Kg		77	40 - 135
2,4,6-Trichlorophenol	15.7	U	1330	1008		ug/Kg		76	39 - 139
2,4-Dinitrotoluene	12.7	U	1330	1153		ug/Kg		87	48 - 131
Dinitrophenols	24.2	U	1330	888.8		ug/Kg		67	19 - 131
2,4-Dichlorophenol	17.4	U	1330	1204		ug/Kg		90	36 - 135
2,6-Dinitrotoluene	23.2	U	1330	1126		ug/Kg		85	42 - 136
Dichlorobenzidine, 3,3'-	15.4	U	1330	1060		ug/Kg		80	35 - 134
4,6-Dinitro-2-methylphenol	12.7	U	1330	1303		ug/Kg		98	30 - 146
Acenaphthene	15.5	U	1330	1028		ug/Kg		77	37 - 131
Anthracene	13.8	U	1330	1095		ug/Kg		82	39 - 139
Acenaphthylene	14.7	U	1330	1081		ug/Kg		81	39 - 129
Benzo[a]anthracene	14.0	U	1330	1069		ug/Kg		80	44 - 135
Benzo[b]fluoranthene	12.5	U	1330	1127		ug/Kg		85	40 - 153
Benzo[k]fluoranthene	19.3	U	1330	1125		ug/Kg		85	33 - 156
Benzo[g,h,i]perylene	15.3	U	1330	1191		ug/Kg		89	40 - 153
Benzo[a]pyrene	17.2	U	1330	1003		ug/Kg		75	43 - 153
Di (2-ethylhexyl)phthalate	166	U	1330	1013		ug/Kg		76	46 - 145
Bis(2-chloroethyl)ether	15.2	U	1330	987.6		ug/Kg		74	33 - 127
Chrysene	16.5	U	1330	1079		ug/Kg		81	42 - 135
Dibutylphthalate	16.0	U	1330	1033		ug/Kg		78	43 - 142
Dibenz(a,h)anthracene	12.7	U	1330	1022		ug/Kg		77	41 - 155
Diethyl phthalate	15.3	U	1330	1138		ug/Kg		86	45 - 131
Dimethyl phthalate	15.8	U	1330	1124		ug/Kg		84	43 - 132
Fluoranthene	14.7	U	1330	1161		ug/Kg		87	41 - 138
Fluorene	13.8	U	1330	1108		ug/Kg		83	41 - 131
Hexachlorobenzene	16.2	U	1330	1055		ug/Kg		79	36 - 142

QC Sample Results

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

Job ID: 860-13405-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-13405-5 MS
Matrix: Solid
Analysis Batch: 26507

Client Sample ID: Cell26-158-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 26320

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	13.8	U	1330	1010		ug/Kg		76	35 - 129
Hexachlorocyclopentadiene	15.2	U	1330	909.4		ug/Kg		68	16 - 106
Hexachloroethane	17.2	U	1330	1001		ug/Kg		75	36 - 121
Indeno[1,2,3-cd]pyrene	13.4	U	1330	1039		ug/Kg		78	39 - 154
Isophorone	14.5	U	1330	1035		ug/Kg		78	36 - 128
N-Nitrosodi-n-butylamine	25.2	U	1330	1212		ug/Kg		91	34 - 135
N-Nitrosodiethylamine	21.9	U	1330	1053		ug/Kg		79	36 - 127
N-Nitrosodiphenylamine	18.6	U	1330	1063		ug/Kg		80	27 - 155
N-Nitrosopyrrolidine	14.1	U	1330	1167		ug/Kg		88	38 - 136
Pentachlorobenzene	15.9	U	1330	1053		ug/Kg		79	38 - 136
Pentachlorophenol	12.1	U	1330	924.2		ug/Kg		69	14 - 148
Phenanthrene	16.5	U	1330	1054		ug/Kg		79	37 - 139
Pyrene	14.6	U	1330	1052		ug/Kg		79	42 - 138
Naphthalene	15.6	U	1330	1012		ug/Kg		76	35 - 128
2-Methylnaphthalene	45.1	U	1330	1061		ug/Kg		80	36 - 126
Nitrobenzene	18.5	U	1330	1068		ug/Kg		80	32 - 129
Benzidine	12.1	U	1330	262.7	J	ug/Kg		20	12 - 112
Phenol	0.0149	U	1.33	1.084		mg/Kg		81	34 - 127
N-Nitrosodimethylamine	16.7	U	1330	917.3		ug/Kg		69	27 - 126
Atrazine	16.5	U	1330	1270		ug/Kg		95	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	0.0000		1330	975.8		ug/Kg		73	

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*77*		*30 - 115*
2-Fluorophenol	*81*		*25 - 121*
2,4,6-Tribromophenol	*80*		*19 - 122*
Nitrobenzene-d5	*80*		*23 - 129*
Phenol-d5 (Surr)	*82*		*24 - 113*
p-Terphenyl-d14 (Surr)	*80*		*18 - 137*

Lab Sample ID: 860-13405-5 MSD
Matrix: Solid
Analysis Batch: 26507

Client Sample ID: Cell26-158-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 26320

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	944.8		ug/Kg		71	20 - 157	2	30
1,2,4,5-Tetrachlorobenzene	16.4	U	1330	966.4		ug/Kg		73	35 - 135	2	30
1-Methylnaphthalene	26.6	U	1330	1073		ug/Kg		81	38 - 127	0	30
bis (2-chloroisopropyl) ether	17.7	U	1330	928.9		ug/Kg		70	25 - 124	0	30
2,4,5-Trichlorophenol	19.0	U	1330	1050		ug/Kg		79	40 - 135	2	30
2,4,6-Trichlorophenol	15.7	U	1330	991.4		ug/Kg		74	39 - 139	2	30
2,4-Dinitrotoluene	12.7	U	1330	1140		ug/Kg		86	48 - 131	1	30
Dinitrophenols	24.2	U	1330	1029		ug/Kg		77	19 - 131	15	40
2,4-Dichlorophenol	17.4	U	1330	1214		ug/Kg		91	36 - 135	1	30
2,6-Dinitrotoluene	23.2	U	1330	1129		ug/Kg		85	42 - 136	0	30
Dichlorobenzidine, 3,3'-	15.4	U	1330	1031		ug/Kg		77	35 - 134	3	40
4,6-Dinitro-2-methylphenol	12.7	U	1330	1358		ug/Kg		102	30 - 146	4	40

QC Sample Results

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

Job ID: 860-13405-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-13405-5 MSD
Matrix: Solid
Analysis Batch: 26507

Client Sample ID: Cell26-158-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 26320

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	15.5	U	1330	1025		ug/Kg		77	37 - 131	0	30
Anthracene	13.8	U	1330	1084		ug/Kg		81	39 - 139	1	30
Acenaphthylene	14.7	U	1330	1063		ug/Kg		80	39 - 129	2	30
Benzo[a]anthracene	14.0	U	1330	1045		ug/Kg		78	44 - 135	2	30
Benzo[b]fluoranthene	12.5	U	1330	1094		ug/Kg		82	40 - 153	3	30
Benzo[k]fluoranthene	19.3	U	1330	1135		ug/Kg		85	33 - 156	1	30
Benzo[g,h,i]perylene	15.3	U	1330	1173		ug/Kg		88	40 - 153	2	30
Benzo[a]pyrene	17.2	U	1330	997.1		ug/Kg		75	43 - 153	1	30
Di (2-ethylhexyl)phthalate	166	U	1330	995.0		ug/Kg		75	46 - 145	2	30
Bis(2-chloroethyl)ether	15.2	U	1330	1000		ug/Kg		75	33 - 127	1	30
Chrysene	16.5	U	1330	1064		ug/Kg		80	42 - 135	1	30
Dibutylphthalate	16.0	U	1330	1022		ug/Kg		77	43 - 142	1	30
Dibenz(a,h)anthracene	12.7	U	1330	1014		ug/Kg		76	41 - 155	1	30
Diethyl phthalate	15.3	U	1330	1121		ug/Kg		84	45 - 131	2	30
Dimethyl phthalate	15.8	U	1330	1105		ug/Kg		83	43 - 132	2	30
Fluoranthene	14.7	U	1330	1149		ug/Kg		86	41 - 138	1	30
Fluorene	13.8	U	1330	1098		ug/Kg		82	41 - 131	1	30
Hexachlorobenzene	16.2	U	1330	1037		ug/Kg		78	36 - 142	2	30
Hexachlorobutadiene	13.8	U	1330	1007		ug/Kg		76	35 - 129	0	30
Hexachlorocyclopentadiene	15.2	U	1330	924.1		ug/Kg		69	16 - 106	2	30
Hexachloroethane	17.2	U	1330	991.6		ug/Kg		74	36 - 121	1	30
Indeno[1,2,3-cd]pyrene	13.4	U	1330	1021		ug/Kg		77	39 - 154	2	30
Isophorone	14.5	U	1330	1031		ug/Kg		77	36 - 128	0	30
N-Nitrosodi-n-butylamine	25.2	U	1330	1210		ug/Kg		91	34 - 135	0	30
N-Nitrosodiethylamine	21.9	U	1330	1068		ug/Kg		80	36 - 127	1	30
N-Nitrosodiphenylamine	18.6	U	1330	1052		ug/Kg		79	27 - 155	1	30
N-Nitrosopyrrolidine	14.1	U	1330	1177		ug/Kg		88	38 - 136	1	30
Pentachlorobenzene	15.9	U	1330	1039		ug/Kg		78	38 - 136	1	30
Pentachlorophenol	12.1	U	1330	955.7		ug/Kg		72	14 - 148	3	40
Phenanthrene	16.5	U	1330	1029		ug/Kg		77	37 - 139	2	30
Pyrene	14.6	U	1330	1033		ug/Kg		78	42 - 138	2	30
Naphthalene	15.6	U	1330	1008		ug/Kg		76	35 - 128	0	30
2-Methylnaphthalene	45.1	U	1330	1058		ug/Kg		79	36 - 126	0	30
Nitrobenzene	18.5	U	1330	1074		ug/Kg		81	32 - 129	1	30
Benzidine	12.1	U	1330	356.2		ug/Kg		27	12 - 112	30	40
Phenol	0.0149	U	1.33	1.092		mg/Kg		82	34 - 127	1	40
N-Nitrosodimethylamine	16.7	U	1330	928.2		ug/Kg		70	27 - 126	1	30
Atrazine	16.5	U	1330	1265		ug/Kg		95	18 - 134	0	40
Thiophene, tetrahydro-, 1,1-dioxide	0.0000		1330	966.9		ug/Kg		73		1	

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*76*		*30 - 115*
2-Fluorophenol	*83*		*25 - 121*
2,4,6-Tribromophenol	*81*		*19 - 122*
Nitrobenzene-d5	*82*		*23 - 129*
Phenol-d5 (Surr)	*84*		*24 - 113*
p-Terphenyl-d14 (Surr)	*78*		*18 - 137*

QC Sample Results

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

Job ID: 860-13405-1

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

Lab Sample ID: MB 860-26584/1-A
Matrix: Solid
Analysis Batch: 26740

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA	21.1	U	50.1	21.1	mg/Kg		10/14/21 12:07	10/15/21 10:47	1
Diesel Range Organics (Over C10-C28) - RA	21.1	U	50.1	21.1	mg/Kg		10/14/21 12:07	10/15/21 10:47	1
Oil Range Organics (Over C28-C36) - RA	21.1	U	50.1	21.1	mg/Kg		10/14/21 12:07	10/15/21 10:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr) - RA	*124*		*65 - 130*	*10/14/21 12:07*	*10/15/21 10:47*	*1*
1-Chlorooctane - RA	*115*		*65 - 130*	*10/14/21 12:07*	*10/15/21 10:47*	*1*

Lab Sample ID: LCS 860-26584/2-A
Matrix: Solid
Analysis Batch: 26740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26584

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10 - RA			997	972.9		mg/Kg		98	70 - 135		
Diesel Range Organics (Over C10-C28) - RA			997	1086		mg/Kg		109	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr) - RA	*101*		*65 - 130*
1-Chlorooctane - RA	*120*		*65 - 130*

Lab Sample ID: LCSD 860-26584/3-A
Matrix: Solid
Analysis Batch: 26740

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26584

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10 - RA			997	982.7		mg/Kg		99	70 - 135	1	35
Diesel Range Organics (Over C10-C28) - RA			997	1120		mg/Kg		112	70 - 135	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl (Surr) - RA	*99*		*65 - 130*
1-Chlorooctane - RA	*118*		*65 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-26133/1-A
Matrix: Solid
Analysis Batch: 26940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	3.00	0.254	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Aldrin	0.363	U	3.00	0.363	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Hexachlorocyclohexane, alpha-	0.680	U	3.00	0.680	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Hexachlorocyclohexane, beta-	0.474	U	3.00	0.474	ug/Kg		10/12/21 08:39	10/18/21 16:15	1

QC Sample Results

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

Job ID: 860-13405-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-26133/1-A
Matrix: Solid
Analysis Batch: 26940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	23.9	U	83.0	23.9	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Hexachlorocyclohexane, delta-	0.833	U	3.00	0.833	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Dieldrin	0.169	U	3.00	0.169	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Endosulfan I	0.202	U	3.00	0.202	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Endosulfan II	0.372	U	3.00	0.372	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Endosulfan sulfate	0.276	U	3.00	0.276	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Endrin	0.291	U	3.00	0.291	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Endrin aldehyde	0.247	U	3.00	0.247	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Hexachlorocyclohexane, gamma-	0.439	U	3.00	0.439	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Heptachlor	0.562	U	3.00	0.562	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Heptachlor epoxide	0.245	U	3.00	0.245	ug/Kg		10/12/21 08:39	10/18/21 16:15	1
Toxaphene	11.3	U	83.0	11.3	ug/Kg		10/12/21 08:39	10/18/21 16:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*35 - 135*	*10/12/21 08:39*	*10/18/21 16:15*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*25 - 143*	*10/12/21 08:39*	*10/18/21 16:15*	*1*

Lab Sample ID: LCS 860-26133/2-A
Matrix: Solid
Analysis Batch: 26940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	16.7	18.46		ug/Kg		111	13 - 192
Aldrin	16.7	17.39		ug/Kg		104	30 - 152
Hexachlorocyclohexane, alpha-	16.7	16.72		ug/Kg		100	29 - 160
Hexachlorocyclohexane, beta-	16.7	15.98		ug/Kg		96	30 - 155
Hexachlorocyclohexane, delta-	16.7	17.47		ug/Kg		105	20 - 161
Dieldrin	16.7	17.63		ug/Kg		106	33 - 153
Endosulfan I	16.7	17.17		ug/Kg		103	30 - 151
Endosulfan II	16.7	17.17		ug/Kg		103	27 - 153
Endosulfan sulfate	16.7	17.77		ug/Kg		107	15 - 170
Endrin	16.7	18.81		ug/Kg		113	25 - 162
Endrin aldehyde	16.7	14.28		ug/Kg		86	49 - 117
Hexachlorocyclohexane, gamma-	16.7	17.04		ug/Kg		102	30 - 158
Heptachlor	16.7	16.99		ug/Kg		102	29 - 163
Heptachlor epoxide	16.7	16.86		ug/Kg		101	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*94*		*25 - 143*

Lab Sample ID: LCSD 860-26133/3-A
Matrix: Solid
Analysis Batch: 26940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26133

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT	16.7	17.58		ug/Kg		106	13 - 192	5	25

QC Sample Results

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

Job ID: 860-13405-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-26133/3-A
Matrix: Solid
Analysis Batch: 26940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26133

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.7	16.71		ug/Kg		100	30 - 152	4	25
Hexachlorocyclohexane, alpha-			16.7	16.08		ug/Kg		96	29 - 160	4	25
Hexachlorocyclohexane, beta-			16.7	15.51		ug/Kg		93	30 - 155	3	25
Hexachlorocyclohexane, delta-			16.7	17.02		ug/Kg		102	20 - 161	3	25
Dieldrin			16.7	17.00		ug/Kg		102	33 - 153	4	25
Endosulfan I			16.7	16.56		ug/Kg		99	30 - 151	4	25
Endosulfan II			16.7	16.74		ug/Kg		100	27 - 153	3	25
Endosulfan sulfate			16.7	17.35		ug/Kg		104	15 - 170	2	25
Endrin			16.7	18.10		ug/Kg		109	25 - 162	4	25
Endrin aldehyde			16.7	13.99		ug/Kg		84	49 - 117	2	25
Hexachlorocyclohexane, gamma-			16.7	16.37		ug/Kg		98	30 - 158	4	25
Heptachlor			16.7	16.29		ug/Kg		98	29 - 163	4	25
Heptachlor epoxide			16.7	16.30		ug/Kg		98	30 - 150	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*71*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*91*		*25 - 143*

Lab Sample ID: 860-13405-1 MS
Matrix: Solid
Analysis Batch: 26940

Client Sample ID: Cell25-21-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 26133

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	0.446	J	16.7	17.84		ug/Kg		104	13 - 192
Aldrin	0.362	U	16.7	17.06		ug/Kg		102	30 - 152
Hexachlorocyclohexane, alpha-	0.679	U	16.7	16.50		ug/Kg		99	29 - 160
Hexachlorocyclohexane, beta-	0.473	U	16.7	15.87		ug/Kg		95	30 - 155
Hexachlorocyclohexane, delta-	0.832	U	16.7	17.37		ug/Kg		104	20 - 161
Dieldrin	0.169	U	16.7	17.30		ug/Kg		104	33 - 153
Endosulfan I	0.202	U	16.7	16.83		ug/Kg		101	30 - 151
Endosulfan II	0.372	U	16.7	16.78		ug/Kg		101	27 - 153
Endosulfan sulfate	0.276	U	16.7	17.22		ug/Kg		103	15 - 170
Endrin	0.291	U	16.7	18.29		ug/Kg		110	25 - 162
Endrin aldehyde	0.247	U	16.7	11.52		ug/Kg		69	49 - 117
Hexachlorocyclohexane, gamma-	0.438	U	16.7	16.74		ug/Kg		100	30 - 158
Heptachlor	0.562	U	16.7	16.60		ug/Kg		100	29 - 163
Heptachlor epoxide	0.245	U	16.7	16.56		ug/Kg		99	30 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*73*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*86*		*25 - 143*

QC Sample Results

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

Job ID: 860-13405-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 860-13405-1 MSD
Matrix: Solid
Analysis Batch: 26940

Client Sample ID: Cell25-21-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 26133

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT	0.446	J	16.7	18.52		ug/Kg		109	13 - 192	4	25
Aldrin	0.362	U	16.7	17.21		ug/Kg		103	30 - 152	1	25
Hexachlorocyclohexane, alpha-	0.679	U	16.7	16.78		ug/Kg		101	29 - 160	2	25
Hexachlorocyclohexane, beta-	0.473	U	16.7	16.13		ug/Kg		97	30 - 155	2	25
Hexachlorocyclohexane, delta-	0.832	U	16.7	17.54		ug/Kg		105	20 - 161	1	25
Dieldrin	0.169	U	16.7	17.38		ug/Kg		104	33 - 153	0	25
Endosulfan I	0.202	U	16.7	17.12		ug/Kg		103	30 - 151	2	25
Endosulfan II	0.372	U	16.7	17.07		ug/Kg		103	27 - 153	2	25
Endosulfan sulfate	0.276	U	16.7	17.70		ug/Kg		106	15 - 170	3	25
Endrin	0.291	U	16.7	18.13		ug/Kg		109	25 - 162	1	25
Endrin aldehyde	0.247	U	16.7	11.85		ug/Kg		71	49 - 117	3	25
Hexachlorocyclohexane, gamma-	0.438	U	16.7	17.01		ug/Kg		102	30 - 158	2	25
Heptachlor	0.562	U	16.7	16.97		ug/Kg		102	29 - 163	2	25
Heptachlor epoxide	0.245	U	16.7	16.77		ug/Kg		101	30 - 150	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*87*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-26133/1-A
Matrix: Solid
Analysis Batch: 26386

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		10/12/21 08:39	10/13/21 15:11	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		10/12/21 08:39	10/13/21 15:11	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		10/12/21 08:39	10/13/21 15:11	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		10/12/21 08:39	10/13/21 15:11	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		10/12/21 08:39	10/13/21 15:11	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		10/12/21 08:39	10/13/21 15:11	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		10/12/21 08:39	10/13/21 15:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*35 - 140*	*10/12/21 08:39*	*10/13/21 15:11*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*37 - 142*	*10/12/21 08:39*	*10/13/21 15:11*	*1*

Lab Sample ID: LCS 860-26133/4-A
Matrix: Solid
Analysis Batch: 26386

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26133

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			0.167	0.1218		mg/Kg		73	27 - 121		
Aroclor 1260			0.167	0.1032		mg/Kg		62	27 - 139		

QC Sample Results

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

Job ID: 860-13405-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-26133/4-A
Matrix: Solid
Analysis Batch: 26386

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	72		35 - 140
DCB Decachlorobiphenyl (Surr)	62		37 - 142

Lab Sample ID: LCSD 860-26133/5-A
Matrix: Solid
Analysis Batch: 26386

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26133

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1276		mg/Kg		77	27 - 121	5	20
Aroclor 1260			0.167	0.1081		mg/Kg		65	27 - 139	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	76		35 - 140
DCB Decachlorobiphenyl (Surr)	64		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-554181/1-A
Matrix: Solid
Analysis Batch: 554314

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 554181

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		10/19/21 16:26	10/20/21 20:05	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		10/19/21 16:26	10/20/21 20:05	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		10/19/21 16:26	10/20/21 20:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	103		83 - 122	10/19/21 16:26	10/20/21 20:05	1

Lab Sample ID: LCS 280-554181/2-A
Matrix: Solid
Analysis Batch: 554314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554181

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	1.009		mg/Kg		101	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9947		mg/Kg		99	80 - 124
2,4,6-Trinitrotoluene			1.00	1.059		mg/Kg		106	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	100		83 - 122

QC Sample Results

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

Job ID: 860-13405-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 860-13405-1 MS
Matrix: Solid
Analysis Batch: 554314

Client Sample ID: Cell25-21-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 554181

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	0.0212	U	0.964	0.9494		mg/Kg		98	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0401	U	0.964	0.8294		mg/Kg		86	80 - 124
2,4,6-Trinitrotoluene	0.0287	U	0.964	1.025		mg/Kg		106	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dinitrobenzene	*101*		*83 - 122*

Lab Sample ID: 860-13405-1 MSD
Matrix: Solid
Analysis Batch: 554314

Client Sample ID: Cell25-21-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 554181

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	0.0212	U	0.968	0.9533		mg/Kg		98	80 - 120	0	30
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0401	U	0.968	0.8272		mg/Kg		85	80 - 124	0	30
2,4,6-Trinitrotoluene	0.0287	U	0.968	1.028		mg/Kg		106	80 - 120	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*100*		*83 - 122*

Lab Sample ID: 860-13405-2 DU
Matrix: Solid
Analysis Batch: 554314

Client Sample ID: Cell25-35-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 554181

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	0.0214	U	0.0222	U	mg/Kg		NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0405	U	0.0421	U	mg/Kg		NC	20
2,4,6-Trinitrotoluene	0.0289	U	0.0300	U	mg/Kg		NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
1,2-Dinitrobenzene	*103*		*83 - 122*

Lab Sample ID: 860-13405-2 TRL
Matrix: Solid
Analysis Batch: 554314

Client Sample ID: Cell25-35-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 554181

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	0.0214	U	0.0220	U	mg/Kg		NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0405	U	0.0417	U	mg/Kg		NC	20
2,4,6-Trinitrotoluene	0.0289	U	0.0298	U	mg/Kg		NC	20

QC Sample Results

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

Job ID: 860-13405-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 860-13405-2 TRL
Matrix: Solid
Analysis Batch: 554314

Client Sample ID: Cell25-35-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 554181

Surrogate	TRL %Recovery	TRL Qualifier	Limits
1,2-Dinitrobenzene	103		83 - 122

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-27972/1-A
Matrix: Solid
Analysis Batch: 27878

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27972

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		10/23/21 09:07	10/24/21 13:57	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		10/23/21 09:07	10/24/21 13:57	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		10/23/21 09:07	10/24/21 13:57	1
Nitrite as N	0.06417	J	1.00	0.0500	mg/Kg		10/23/21 09:07	10/24/21 13:57	1
Nitrate Nitrite as N	0.108	U	1.00	0.108	mg/Kg		10/23/21 09:07	10/24/21 13:57	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		10/23/21 09:07	10/24/21 13:57	1

Lab Sample ID: LCS 860-27972/2-A
Matrix: Solid
Analysis Batch: 27878

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	97.08		mg/Kg		97	80 - 120
Nitrate as N	100	97.10		mg/Kg		97	80 - 120
Fluoride	100	99.56		mg/Kg		100	80 - 120
Nitrite as N	50.0	50.44		mg/Kg		101	80 - 120
Nitrate Nitrite as N	150	147.5		mg/Kg		98	80 - 120
Sulfate	100	94.02		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 860-27972/3-A
Matrix: Solid
Analysis Batch: 27878

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27972

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	98.37		mg/Kg		98	80 - 120	1	20
Nitrate as N	100	98.03		mg/Kg		98	80 - 120	1	20
Fluoride	100	100.8		mg/Kg		101	80 - 120	1	20
Nitrite as N	50.0	51.01		mg/Kg		102	80 - 120	1	20
Nitrate Nitrite as N	150	149.0		mg/Kg		99	80 - 120	1	20
Sulfate	100	95.00		mg/Kg		95	80 - 120	1	20

Lab Sample ID: 860-13405-1 MS
Matrix: Solid
Analysis Batch: 27878

Client Sample ID: Cell25-21-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 27972

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16.2		101	104.5		mg/Kg		88	80 - 120
Fluoride	1.53	J	101	108.8		mg/Kg		107	80 - 120
Sulfate	4.36	U	101	103.4		mg/Kg		103	80 - 120

QC Sample Results

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

Job ID: 860-13405-1

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

Lab Sample ID: 860-13405-1 MSD
Matrix: Solid
Analysis Batch: 27878

Client Sample ID: Cell25-21-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 27972

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	16.2		101	105.0		mg/Kg		88	80 - 120	0	20
Fluoride	1.53	J	101	109.0		mg/Kg		107	80 - 120	0	20
Sulfate	4.36	U	101	103.8		mg/Kg		103	80 - 120	0	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: MB 280-553699/1-A
Matrix: Solid
Analysis Batch: 554104

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553699

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		10/15/21 15:58	10/19/21 14:14	1

Lab Sample ID: LCS 280-553699/2-A
Matrix: Solid
Analysis Batch: 554104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.4851	J	ug/Kg		97	80 - 120

Lab Sample ID: 860-13405-7 MS
Matrix: Solid
Analysis Batch: 554104

Client Sample ID: Cell26-49-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 553699

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.197	J	0.496	0.7463		ug/Kg		111	70 - 130

Lab Sample ID: 860-13405-7 MSD
Matrix: Solid
Analysis Batch: 554104

Client Sample ID: Cell26-49-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 553699

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	0.197	J	0.461	0.6870		ug/Kg		106	70 - 130	8	15

Lab Sample ID: DLCK 280-554003/12
Matrix: Solid
Analysis Batch: 554003

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	0.05233		ug/L		105	70 - 130

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-539536/13
Matrix: Solid
Analysis Batch: 539536

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	0.5103	J	ug/L		102	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4771	J	ug/L		105	70 - 130

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QC Sample Results

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

Job ID: 860-13405-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: DLCK 280-539536/13
Matrix: Solid
Analysis Batch: 539536

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

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorooctanesulfonic acid (PFOS)			0.464	0.665	U	ug/L		96	70 - 130		

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*106*		*57 - 153*
13C8 PFOS	*100*		*70 - 130*

Lab Sample ID: MB 280-553597/1-A
Matrix: Solid
Analysis Batch: 553934

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553597

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		10/14/21 17:30	10/18/21 08:00	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		10/14/21 17:30	10/18/21 08:00	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		10/14/21 17:30	10/18/21 08:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*102*		*57 - 153*	*10/14/21 17:30*	*10/18/21 08:00*	*1*
13C8 PFOS	*106*		*70 - 130*	*10/14/21 17:30*	*10/18/21 08:00*	*1*

Lab Sample ID: LCS 280-553597/2-A
Matrix: Solid
Analysis Batch: 553934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553597

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorooctanoic acid (PFOA)			20.0	18.31		ug/Kg		92	70 - 131		
Perfluorohexanesulfonic acid (PFHxS)			18.2	16.73		ug/Kg		92	70 - 135		
Perfluorooctanesulfonic acid (PFOS)			18.6	18.93		ug/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*102*		*70 - 130*

Lab Sample ID: 860-13405-6 MS
Matrix: Solid
Analysis Batch: 553934

Client Sample ID: Cell26-129-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 553597

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorooctanoic acid (PFOA)	0.223	U	19.2	16.53		ug/Kg		86	70 - 131		
Perfluorohexanesulfonic acid (PFHxS)	0.272	U	17.5	15.38		ug/Kg		88	70 - 135		
Perfluorooctanesulfonic acid (PFOS)	0.136	U	17.8	18.20		ug/Kg		102	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
13C8 PFOA	*97*		*57 - 153*
13C8 PFOS	*98*		*70 - 130*

QC Sample Results

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

Job ID: 860-13405-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: 860-13405-6 MSD
Matrix: Solid
Analysis Batch: 553934

Client Sample ID: Cell26-129-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 553597

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanoic acid (PFOA)	0.223	U	20.0	17.07		ug/Kg		86	70 - 131	3	30
Perfluorohexanesulfonic acid (PFHxS)	0.272	U	18.2	16.75		ug/Kg		92	70 - 135	9	30
Perfluorooctanesulfonic acid (PFOS)	0.136	U	18.5	19.95		ug/Kg		108	70 - 130	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*104*		*70 - 130*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-26205/1-A
Matrix: Solid
Analysis Batch: 26536

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26205

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0159	U	0.200	0.0159	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Arsenic	0.0617	U	0.400	0.0617	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Barium	0.0347	U	0.400	0.0347	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Beryllium	0.0185	U	0.200	0.0185	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Cadmium	0.0116	U	0.200	0.0116	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Chromium	0.0271	U	0.400	0.0271	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Copper	0.0261	U	0.400	0.0261	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Iron	0.234	U	2.00	0.234	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Manganese	0.1230	J	0.200	0.0255	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Lead	0.0194	U	0.200	0.0194	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Antimony	0.0119	U	0.200	0.0119	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Selenium	0.0496	U	0.200	0.0496	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Thallium	0.0239	U	0.200	0.0239	mg/Kg		10/12/21 11:40	10/13/21 21:06	1
Uranium	0.00598	U	0.100	0.00598	mg/Kg		10/12/21 11:40	10/13/21 21:06	1

Lab Sample ID: MB 860-26205/1-A
Matrix: Solid
Analysis Batch: 26725

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26205

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.1843	J	0.400	0.0443	mg/Kg		10/12/21 11:40	10/14/21 17:48	1

Lab Sample ID: LCS 860-26205/2-A
Matrix: Solid
Analysis Batch: 26536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26205

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	5.00	4.613		mg/Kg		92	80 - 120
Arsenic	10.0	9.350		mg/Kg		94	80 - 120
Barium	10.0	9.577		mg/Kg		96	80 - 120
Beryllium	10.0	9.148		mg/Kg		91	80 - 120
Cadmium	10.0	9.211		mg/Kg		92	80 - 120

QC Sample Results

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

Job ID: 860-13405-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-26205/2-A
Matrix: Solid
Analysis Batch: 26536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26205

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	10.0	9.346		mg/Kg		93	80 - 120
Copper	10.0	9.226		mg/Kg		92	80 - 120
Iron	50.0	47.34		mg/Kg		95	80 - 120
Manganese	10.0	11.34		mg/Kg		113	80 - 120
Lead	10.0	9.271		mg/Kg		93	80 - 120
Antimony	10.0	9.124		mg/Kg		91	80 - 120
Selenium	10.0	9.201		mg/Kg		92	80 - 120
Thallium	10.0	9.361		mg/Kg		94	80 - 120
Uranium	2.50	2.326		mg/Kg		93	80 - 120

Lab Sample ID: LCS 860-26205/2-A
Matrix: Solid
Analysis Batch: 26725

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26205

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	10.0	10.67		mg/Kg		107	80 - 120

Lab Sample ID: LCSD 860-26205/3-A
Matrix: Solid
Analysis Batch: 26536

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26205

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.90	4.430		mg/Kg		90	80 - 120	4	20
Arsenic	9.80	9.026		mg/Kg		92	80 - 120	4	20
Barium	9.80	9.114		mg/Kg		93	80 - 120	5	20
Beryllium	9.80	8.999		mg/Kg		92	80 - 120	2	20
Cadmium	9.80	8.868		mg/Kg		90	80 - 120	4	20
Chromium	9.80	9.079		mg/Kg		93	80 - 120	3	20
Copper	9.80	8.897		mg/Kg		91	80 - 120	4	20
Iron	49.0	46.86		mg/Kg		96	80 - 120	1	20
Manganese	9.80	9.458		mg/Kg		96	80 - 120	18	20
Lead	9.80	8.976		mg/Kg		92	80 - 120	3	20
Antimony	9.80	9.160		mg/Kg		93	80 - 120	0	20
Selenium	9.80	9.034		mg/Kg		92	80 - 120	2	20
Thallium	9.80	9.027		mg/Kg		92	80 - 120	4	20
Uranium	2.45	2.250		mg/Kg		92	80 - 120	3	20

Lab Sample ID: LCSD 860-26205/3-A
Matrix: Solid
Analysis Batch: 26725

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26205

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	9.80	9.632		mg/Kg		98	80 - 120	10	20

QC Sample Results

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

Job ID: 860-13405-1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-26325/10-A
Matrix: Solid
Analysis Batch: 26438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26325

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00370	U	0.0192	0.00370	mg/Kg		10/13/21 09:45	10/13/21 13:09	1

Lab Sample ID: LCS 860-26325/11-A
Matrix: Solid
Analysis Batch: 26438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26325

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.189	0.1913		mg/Kg		101	80 - 120

Lab Sample ID: LCSD 860-26325/12-A
Matrix: Solid
Analysis Batch: 26438

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26325

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.185	0.1842		mg/Kg		99	80 - 120	4	20

Lab Sample ID: 860-13405-2 MS
Matrix: Solid
Analysis Batch: 26438

Client Sample ID: Cell25-35-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 26325

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0152	J	0.185	0.2393		mg/Kg		121	75 - 125

Lab Sample ID: 860-13405-2 MSD
Matrix: Solid
Analysis Batch: 26438

Client Sample ID: Cell25-35-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 26325

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0152	J	0.182	0.2357		mg/Kg		121	75 - 125	1	20

Lab Sample ID: MB 860-26406/10-A
Matrix: Solid
Analysis Batch: 26438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26406

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00384	U	0.0200	0.00384	mg/Kg		10/13/21 12:45	10/13/21 14:02	1

Lab Sample ID: LCS 860-26406/11-A
Matrix: Solid
Analysis Batch: 26438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.189	0.2038		mg/Kg		108	80 - 120

Lab Sample ID: LCSD 860-26406/12-A
Matrix: Solid
Analysis Batch: 26438

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26406

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.192	0.2108		mg/Kg		110	80 - 120	3	20

QC Sample Results

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

Job ID: 860-13405-1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: 860-13405-7 MS
Matrix: Solid
Analysis Batch: 26438

Client Sample ID: Cell26-49-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 26406

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0130	J	0.196	0.2390		mg/Kg		115	75 - 125

Lab Sample ID: 860-13405-7 MSD
Matrix: Solid
Analysis Batch: 26438

Client Sample ID: Cell26-49-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 26406

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0130	J	0.189	0.2311		mg/Kg		116	75 - 125	3	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-27562/25-A
Matrix: Solid
Analysis Batch: 27622

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		10/21/21 11:00	10/21/21 16:28	1

Lab Sample ID: MB 860-27562/4-A
Matrix: Solid
Analysis Batch: 27622

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		10/21/21 11:00	10/21/21 15:53	1

Lab Sample ID: LCS 860-27562/5-A
Matrix: Solid
Analysis Batch: 27622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	100.6		ug/Kg		101	90 - 110

Lab Sample ID: LLCS 860-27562/27-A
Matrix: Solid
Analysis Batch: 27622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27562

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	50.0	52.30		ug/Kg		105	90 - 110

Method: 9045D - pH

Lab Sample ID: 860-13405-1 DU
Matrix: Solid
Analysis Batch: 26608

Client Sample ID: Cell25-21-S-3-4-211007
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.2		8.5		SU		3	20

QC Sample Results

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

Job ID: 860-13405-1

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-27528/1-A
Matrix: Solid
Analysis Batch: 27788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0599	U	0.0999	0.0599	mg/Kg		10/21/21 08:30	10/22/21 10:21	1

Lab Sample ID: MB 860-27528/1-A
Matrix: Solid
Analysis Batch: 27788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0599	U	0.0999	0.0599	mg/Kg		10/21/21 08:30	10/22/21 12:06	1

Lab Sample ID: LCS 860-27528/2-A
Matrix: Solid
Analysis Batch: 27788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.998	1.001		mg/Kg		100	90 - 110

Lab Sample ID: LCS 860-27528/2-A
Matrix: Solid
Analysis Batch: 27788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.998	0.9832		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 860-27528/3-A
Matrix: Solid
Analysis Batch: 27788

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27528

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	0.996	1.013		mg/Kg		102	90 - 110	1	20

Lab Sample ID: LCSD 860-27528/3-A
Matrix: Solid
Analysis Batch: 27788

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27528

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	0.996	0.9863		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 860-13405-4 MS
Matrix: Solid
Analysis Batch: 27788

Client Sample ID: Cell26-101-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 27528

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.0598	U	0.987	0.9796		mg/Kg		99	90 - 110

Lab Sample ID: 860-13405-4 MSD
Matrix: Solid
Analysis Batch: 27788

Client Sample ID: Cell26-101-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 27528

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	0.0598	U	0.995	1.006		mg/Kg		101	90 - 110	3	20

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QC Sample Results

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

Job ID: 860-13405-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-190117/1
Matrix: Solid
Analysis Batch: 190117

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			10/21/21 15:00	1

Lab Sample ID: LCS 560-190117/2
Matrix: Solid
Analysis Batch: 190117

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	2092		mg/L		93	90 - 110

Lab Sample ID: MB 560-190143/1
Matrix: Solid
Analysis Batch: 190143

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			10/23/21 15:40	1

Lab Sample ID: LCS 560-190143/2
Matrix: Solid
Analysis Batch: 190143

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	2096		mg/L		93	90 - 110

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-532013/1-A
Matrix: Solid
Analysis Batch: 535386

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 532013

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.1118	U	0.0992	0.0999	1.00	0.514	pCi/g	10/15/21 12:56	11/08/21 19:15	1
Radium-228	0.01831	U	0.0549	0.0549		0.356	pCi/g	10/15/21 12:56	11/08/21 19:15	1
Combined Radium 226 + 228	-0.09345	U	0.1134	0.1140		0.514	pCi/g	10/15/21 12:56	11/08/21 19:15	1

Lab Sample ID: LCS 160-532013/2-A
Matrix: Solid
Analysis Batch: 535399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 532013

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.3	106.5		12.5		1.12	pCi/g	111	87 - 116
Cesium-137	26.2	29.71		3.12		0.253	pCi/g	113	87 - 120
Cobalt-60	8.41	9.208		0.975		0.118	pCi/g	110	87 - 115

QC Sample Results

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

Job ID: 860-13405-1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: 860-13405-7 DU
Matrix: Solid
Analysis Batch: 535420

Client Sample ID: Cell26-49-S-3-4-211007
Prep Type: Total/NA
Prep Batch: 532013

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	1.14			1.151		0.239	1.00	0.156	pCi/g			0.02	1
Radium-228	0.0949	U		0.2996		0.108		0.0952	pCi/g			0.87	1
Combined Radium 226 + 228	1.24			1.450		0.262		0.156	pCi/g			0.42	1

QC Association Summary

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

Job ID: 860-13405-1

GC/MS VOA

Prep Batch: 26001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	5035	
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	5035	
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	5035	
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	5035	
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	5035	
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	5035	
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	5035	
860-13405-1 MS	Cell25-21-S-3-4-211007	Total/NA	Solid	5035	

Analysis Batch: 27086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	8260D SIM	26001
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	8260D SIM	26001
MB 860-27086/9	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-27086/3	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-27086/4	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 27211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	8260D SIM	26001
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	8260D SIM	26001
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	8260D SIM	26001
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	8260D SIM	26001
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	8260D SIM	26001
MB 860-27211/9	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-27211/3	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-27211/4	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	
860-13405-1 MS	Cell25-21-S-3-4-211007	Total/NA	Solid	8260D SIM	26001

Analysis Batch: 189836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	8260B	
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	8260B	
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	8260B	
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	8260B	
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	8260B	
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	8260B	
MB 560-189836/8	Method Blank	Total/NA	Solid	8260B	
LCS 560-189836/3	Lab Control Sample	Total/NA	Solid	8260B	
860-13405-1 MS	Cell25-21-S-3-4-211007	Total/NA	Solid	8260B	
860-13405-1 MSD	Cell25-21-S-3-4-211007	Total/NA	Solid	8260B	

Analysis Batch: 189869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	8260B	
MB 560-189869/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-189869/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-189869/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS Semi VOA

Prep Batch: 26116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	3550C	
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	3550C	
860-13405-2 - RA	Cell25-35-S-3-4-211007	Total/NA	Solid	3550C	
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	3550C	
860-13405-3 - RA	Cell25-97-S-3-4-211007	Total/NA	Solid	3550C	
MB 860-26116/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-26116/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-26116/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 26121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-26116/1-A	Method Blank	Total/NA	Solid	8270D	26116
LCS 860-26116/2-A	Lab Control Sample	Total/NA	Solid	8270D	26116
LCSD 860-26116/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	26116

Prep Batch: 26320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	3550C	
860-13405-4 - RA	Cell26-101-S-3-4-211007	Total/NA	Solid	3550C	
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	3550C	
860-13405-5 - RA	Cell26-158-S-3-4-211007	Total/NA	Solid	3550C	
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	3550C	
860-13405-6 - RA	Cell26-129-S-3-4-211007	Total/NA	Solid	3550C	
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	3550C	
860-13405-7 - RA	Cell26-49-S-3-4-211007	Total/NA	Solid	3550C	
MB 860-26320/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-26320/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-26320/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-13405-5 MS	Cell26-158-S-3-4-211007	Total/NA	Solid	3550C	
860-13405-5 MSD	Cell26-158-S-3-4-211007	Total/NA	Solid	3550C	

Analysis Batch: 26332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	8270D	26116

Analysis Batch: 26506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-2 - RA	Cell25-35-S-3-4-211007	Total/NA	Solid	8270D	26116
860-13405-3 - RA	Cell25-97-S-3-4-211007	Total/NA	Solid	8270D	26116
860-13405-4 - RA	Cell26-101-S-3-4-211007	Total/NA	Solid	8270D	26320
860-13405-5 - RA	Cell26-158-S-3-4-211007	Total/NA	Solid	8270D	26320
860-13405-6 - RA	Cell26-129-S-3-4-211007	Total/NA	Solid	8270D	26320
860-13405-7 - RA	Cell26-49-S-3-4-211007	Total/NA	Solid	8270D	26320

Analysis Batch: 26507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	8270D	26116
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	8270D	26116
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	8270D	26320
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	8270D	26320
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	8270D	26320

QC Association Summary

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

Job ID: 860-13405-1

GC/MS Semi VOA (Continued)

Analysis Batch: 26507 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	8270D	26320
LCS 860-26320/2-A	Lab Control Sample	Total/NA	Solid	8270D	26320
LCSD 860-26320/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	26320
860-13405-5 MS	Cell26-158-S-3-4-211007	Total/NA	Solid	8270D	26320
860-13405-5 MSD	Cell26-158-S-3-4-211007	Total/NA	Solid	8270D	26320

Analysis Batch: 26509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-26320/1-A	Method Blank	Total/NA	Solid	8270D	26320

Prep Batch: 552381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	3546	
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	3546	
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	3546	
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	3546	
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	3546	
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	3546	
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	3546	
MB 400-552381/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-552381/2-A	Lab Control Sample	Total/NA	Solid	3546	
860-13405-1 MS	Cell25-21-S-3-4-211007	Total/NA	Solid	3546	
860-13405-1 MSD	Cell25-21-S-3-4-211007	Total/NA	Solid	3546	

Analysis Batch: 552598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-552381/1-A	Method Blank	Total/NA	Solid	8270D	552381
LCS 400-552381/2-A	Lab Control Sample	Total/NA	Solid	8270D	552381

Analysis Batch: 552737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	8270D	552381
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	8270D	552381
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	8270D	552381
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	8270D	552381
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	8270D	552381
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	8270D	552381
860-13405-1 MS	Cell25-21-S-3-4-211007	Total/NA	Solid	8270D	552381
860-13405-1 MSD	Cell25-21-S-3-4-211007	Total/NA	Solid	8270D	552381

Analysis Batch: 552998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	8270D	552381

GC Semi VOA

Prep Batch: 26133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	3550C	
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	3550C	
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	3550C	

QC Association Summary

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

Job ID: 860-13405-1

GC Semi VOA (Continued)

Prep Batch: 26133 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	3550C	
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	3550C	
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	3550C	
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	3550C	
MB 860-26133/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-26133/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-26133/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-26133/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-26133/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-13405-1 MS	Cell25-21-S-3-4-211007	Total/NA	Solid	3550C	
860-13405-1 MSD	Cell25-21-S-3-4-211007	Total/NA	Solid	3550C	

Analysis Batch: 26386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	8082A	26133
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	8082A	26133
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	8082A	26133
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	8082A	26133
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	8082A	26133
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	8082A	26133
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	8082A	26133
MB 860-26133/1-A	Method Blank	Total/NA	Solid	8082A	26133
LCS 860-26133/4-A	Lab Control Sample	Total/NA	Solid	8082A	26133
LCSD 860-26133/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	26133

Prep Batch: 26584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	8015NM Prep	
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	8015NM Prep	
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	8015NM Prep	
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	8015NM Prep	
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	8015NM Prep	
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	8015NM Prep	
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	8015NM Prep	
MB 860-26584/1-A - RA	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-26584/2-A - RA	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-26584/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 26663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	8015B NM	26584
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	8015B NM	26584
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	8015B NM	26584
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	8015B NM	26584
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	8015B NM	26584
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	8015B NM	26584
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	8015B NM	26584

Analysis Batch: 26740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-26584/1-A - RA	Method Blank	Total/NA	Solid	8015B NM	26584

QC Association Summary

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

Job ID: 860-13405-1

GC Semi VOA (Continued)

Analysis Batch: 26740 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-26584/2-A - RA	Lab Control Sample	Total/NA	Solid	8015B NM	26584
LCSD 860-26584/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26584

Analysis Batch: 26940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	8081B	26133
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	8081B	26133
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	8081B	26133
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	8081B	26133
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	8081B	26133
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	8081B	26133
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	8081B	26133
MB 860-26133/1-A	Method Blank	Total/NA	Solid	8081B	26133
LCS 860-26133/2-A	Lab Control Sample	Total/NA	Solid	8081B	26133
LCSD 860-26133/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	26133
860-13405-1 MS	Cell25-21-S-3-4-211007	Total/NA	Solid	8081B	26133
860-13405-1 MSD	Cell25-21-S-3-4-211007	Total/NA	Solid	8081B	26133

HPLC/IC

Analysis Batch: 27878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	9056A	27972
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	9056A	27972
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	9056A	27972
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	9056A	27972
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	9056A	27972
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	9056A	27972
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	9056A	27972
MB 860-27972/1-A	Method Blank	Total/NA	Solid	9056A	27972
LCS 860-27972/2-A	Lab Control Sample	Total/NA	Solid	9056A	27972
LCSD 860-27972/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	27972
860-13405-1 MS	Cell25-21-S-3-4-211007	Total/NA	Solid	9056A	27972
860-13405-1 MSD	Cell25-21-S-3-4-211007	Total/NA	Solid	9056A	27972

Analysis Batch: 27879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	9056A	27972
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	9056A	27972
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	9056A	27972
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	9056A	27972
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	9056A	27972
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	9056A	27972
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	9056A	27972
MB 860-27972/1-A	Method Blank	Total/NA	Solid	9056A	27972
LCS 860-27972/2-A	Lab Control Sample	Total/NA	Solid	9056A	27972
LCSD 860-27972/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	27972

Prep Batch: 27972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	300_Prep	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Prep Batch: 27972 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	300_Prep	
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	300_Prep	
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	300_Prep	
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	300_Prep	
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	300_Prep	
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	300_Prep	
MB 860-27972/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-27972/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-27972/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-13405-1 MS	Cell25-21-S-3-4-211007	Total/NA	Solid	300_Prep	
860-13405-1 MSD	Cell25-21-S-3-4-211007	Total/NA	Solid	300_Prep	

ISM Prep Batch: 553371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	Increment, prep	
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	Increment, prep	
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	Increment, prep	
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	Increment, prep	
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	Increment, prep	
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	Increment, prep	
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	Increment, prep	
860-13405-1 MS	Cell25-21-S-3-4-211007	Total/NA	Solid	Increment, prep	
860-13405-1 MSD	Cell25-21-S-3-4-211007	Total/NA	Solid	Increment, prep	
860-13405-2 DU	Cell25-35-S-3-4-211007	Total/NA	Solid	Increment, prep	
860-13405-2 TRL	Cell25-35-S-3-4-211007	Total/NA	Solid	Increment, prep	

Prep Batch: 554181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	8330B	553371
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	8330B	553371
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	8330B	553371
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	8330B	553371
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	8330B	553371
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	8330B	553371
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	8330B	553371
MB 280-554181/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-554181/2-A	Lab Control Sample	Total/NA	Solid	8330B	
860-13405-1 MS	Cell25-21-S-3-4-211007	Total/NA	Solid	8330B	553371
860-13405-1 MSD	Cell25-21-S-3-4-211007	Total/NA	Solid	8330B	553371
860-13405-2 DU	Cell25-35-S-3-4-211007	Total/NA	Solid	8330B	553371
860-13405-2 TRL	Cell25-35-S-3-4-211007	Total/NA	Solid	8330B	553371

Analysis Batch: 554314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	8330B	554181
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	8330B	554181
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	8330B	554181
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	8330B	554181
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	8330B	554181
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	8330B	554181
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	8330B	554181

QC Association Summary

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

Job ID: 860-13405-1

HPLC/IC (Continued)

Analysis Batch: 554314 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-554181/1-A	Method Blank	Total/NA	Solid	8330B	554181
LCS 280-554181/2-A	Lab Control Sample	Total/NA	Solid	8330B	554181
860-13405-1 MS	Cell25-21-S-3-4-211007	Total/NA	Solid	8330B	554181
860-13405-1 MSD	Cell25-21-S-3-4-211007	Total/NA	Solid	8330B	554181
860-13405-2 DU	Cell25-35-S-3-4-211007	Total/NA	Solid	8330B	554181
860-13405-2 TRL	Cell25-35-S-3-4-211007	Total/NA	Solid	8330B	554181

LCMS

Analysis Batch: 539536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-539536/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Prep Batch: 553597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	PFC leach	
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	PFC leach	
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	PFC leach	
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	PFC leach	
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	PFC leach	
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	PFC leach	
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	PFC leach	
MB 280-553597/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-553597/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	
860-13405-6 MS	Cell26-129-S-3-4-211007	Total/NA	Solid	PFC leach	
860-13405-6 MSD	Cell26-129-S-3-4-211007	Total/NA	Solid	PFC leach	

Prep Batch: 553699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	6860	
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	6860	
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	6860	
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	6860	
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	6860	
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	6860	
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	6860	
MB 280-553699/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-553699/2-A	Lab Control Sample	Total/NA	Solid	6860	
860-13405-7 MS	Cell26-49-S-3-4-211007	Total/NA	Solid	6860	
860-13405-7 MSD	Cell26-49-S-3-4-211007	Total/NA	Solid	6860	

Analysis Batch: 553934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	DV-LC-0012	553597
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	DV-LC-0012	553597
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	DV-LC-0012	553597
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	DV-LC-0012	553597
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	DV-LC-0012	553597
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	DV-LC-0012	553597
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	DV-LC-0012	553597
MB 280-553597/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	553597

QC Association Summary

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

Job ID: 860-13405-1

LCMS (Continued)

Analysis Batch: 553934 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-553597/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	553597
860-13405-6 MS	Cell26-129-S-3-4-211007	Total/NA	Solid	DV-LC-0012	553597
860-13405-6 MSD	Cell26-129-S-3-4-211007	Total/NA	Solid	DV-LC-0012	553597

Analysis Batch: 554003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-554003/12	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 554104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	6860	553699
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	6860	553699
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	6860	553699
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	6860	553699
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	6860	553699
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	6860	553699
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	6860	553699
MB 280-553699/1-A	Method Blank	Total/NA	Solid	6860	553699
LCS 280-553699/2-A	Lab Control Sample	Total/NA	Solid	6860	553699
860-13405-7 MS	Cell26-49-S-3-4-211007	Total/NA	Solid	6860	553699
860-13405-7 MSD	Cell26-49-S-3-4-211007	Total/NA	Solid	6860	553699

Metals

Prep Batch: 26205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	3051A	
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	3051A	
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	3051A	
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	3051A	
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	3051A	
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	3051A	
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	3051A	
MB 860-26205/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-26205/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-26205/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Prep Batch: 26325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	7471A	
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	7471A	
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	7471A	
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	7471A	
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	7471A	
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	7471A	
MB 860-26325/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-26325/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-26325/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-13405-2 MS	Cell25-35-S-3-4-211007	Total/NA	Solid	7471A	
860-13405-2 MSD	Cell25-35-S-3-4-211007	Total/NA	Solid	7471A	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Prep Batch: 26406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	7471A	
MB 860-26406/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-26406/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-26406/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-13405-7 MS	Cell26-49-S-3-4-211007	Total/NA	Solid	7471A	
860-13405-7 MSD	Cell26-49-S-3-4-211007	Total/NA	Solid	7471A	

Analysis Batch: 26438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	7471A	26325
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	7471A	26325
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	7471A	26325
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	7471A	26325
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	7471A	26325
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	7471A	26325
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	7471A	26406
MB 860-26325/10-A	Method Blank	Total/NA	Solid	7471A	26325
MB 860-26406/10-A	Method Blank	Total/NA	Solid	7471A	26406
LCS 860-26325/11-A	Lab Control Sample	Total/NA	Solid	7471A	26325
LCS 860-26406/11-A	Lab Control Sample	Total/NA	Solid	7471A	26406
LCSD 860-26325/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	26325
LCSD 860-26406/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	26406
860-13405-2 MS	Cell25-35-S-3-4-211007	Total/NA	Solid	7471A	26325
860-13405-2 MSD	Cell25-35-S-3-4-211007	Total/NA	Solid	7471A	26325
860-13405-7 MS	Cell26-49-S-3-4-211007	Total/NA	Solid	7471A	26406
860-13405-7 MSD	Cell26-49-S-3-4-211007	Total/NA	Solid	7471A	26406

Analysis Batch: 26536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	6020A	26205
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	6020A	26205
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	6020A	26205
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	6020A	26205
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	6020A	26205
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	6020A	26205
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	6020A	26205
MB 860-26205/1-A	Method Blank	Total/NA	Solid	6020A	26205
LCS 860-26205/2-A	Lab Control Sample	Total/NA	Solid	6020A	26205
LCSD 860-26205/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	26205

Analysis Batch: 26725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	6020A	26205
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	6020A	26205
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	6020A	26205
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	6020A	26205
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	6020A	26205
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	6020A	26205
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	6020A	26205
MB 860-26205/1-A	Method Blank	Total/NA	Solid	6020A	26205
LCS 860-26205/2-A	Lab Control Sample	Total/NA	Solid	6020A	26205

QC Association Summary

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

Job ID: 860-13405-1

Metals (Continued)

Analysis Batch: 26725 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-26205/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	26205

General Chemistry

Analysis Batch: 26221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	Moisture - 2540	
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	Moisture - 2540	
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	Moisture - 2540	
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	Moisture - 2540	
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	Moisture - 2540	
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	Moisture - 2540	
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	Moisture - 2540	
MB 860-26221/1	Method Blank	Total/NA	Solid	Moisture - 2540	
860-13405-1 DU	Cell25-21-S-3-4-211007	Total/NA	Solid	Moisture - 2540	

Leach Batch: 26605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Soluble	Solid	DI Leach	
860-13405-2	Cell25-35-S-3-4-211007	Soluble	Solid	DI Leach	
860-13405-3	Cell25-97-S-3-4-211007	Soluble	Solid	DI Leach	
860-13405-1 DU	Cell25-21-S-3-4-211007	Soluble	Solid	DI Leach	

Analysis Batch: 26608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Soluble	Solid	9045D	26605
860-13405-2	Cell25-35-S-3-4-211007	Soluble	Solid	9045D	26605
860-13405-3	Cell25-97-S-3-4-211007	Soluble	Solid	9045D	26605
860-13405-1 DU	Cell25-21-S-3-4-211007	Soluble	Solid	9045D	26605

Prep Batch: 27528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	Distill/Phenol	
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	Distill/Phenol	
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	Distill/Phenol	
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	Distill/Phenol	
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	Distill/Phenol	
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	Distill/Phenol	
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	Distill/Phenol	
MB 860-27528/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-27528/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-27528/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	
860-13405-4 MS	Cell26-101-S-3-4-211007	Total/NA	Solid	Distill/Phenol	
860-13405-4 MSD	Cell26-101-S-3-4-211007	Total/NA	Solid	Distill/Phenol	

Leach Batch: 27555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-4	Cell26-101-S-3-4-211007	Soluble	Solid	DI Leach	
860-13405-5	Cell26-158-S-3-4-211007	Soluble	Solid	DI Leach	
860-13405-6	Cell26-129-S-3-4-211007	Soluble	Solid	DI Leach	
860-13405-7	Cell26-49-S-3-4-211007	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Analysis Batch: 27558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-4	Cell26-101-S-3-4-211007	Soluble	Solid	9045D	27555
860-13405-5	Cell26-158-S-3-4-211007	Soluble	Solid	9045D	27555
860-13405-6	Cell26-129-S-3-4-211007	Soluble	Solid	9045D	27555
860-13405-7	Cell26-49-S-3-4-211007	Soluble	Solid	9045D	27555

Prep Batch: 27562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	9012A	
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	9012A	
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	9012A	
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	9012A	
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	9012A	
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	9012A	
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	9012A	
MB 860-27562/25-A	Method Blank	Total/NA	Solid	9012A	
MB 860-27562/4-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-27562/5-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-27562/27-A	Lab Control Sample	Total/NA	Solid	9012A	

Analysis Batch: 27622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	9012A	27562
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	9012A	27562
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	9012A	27562
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	9012A	27562
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	9012A	27562
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	9012A	27562
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	9012A	27562
MB 860-27562/25-A	Method Blank	Total/NA	Solid	9012A	27562
MB 860-27562/4-A	Method Blank	Total/NA	Solid	9012A	27562
LCS 860-27562/5-A	Lab Control Sample	Total/NA	Solid	9012A	27562
LLCS 860-27562/27-A	Lab Control Sample	Total/NA	Solid	9012A	27562

Analysis Batch: 27788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	9066	27528
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	9066	27528
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	9066	27528
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	9066	27528
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	9066	27528
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	9066	27528
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	9066	27528
MB 860-27528/1-A	Method Blank	Total/NA	Solid	9066	27528
MB 860-27528/1-A	Method Blank	Total/NA	Solid	9066	27528
LCS 860-27528/2-A	Lab Control Sample	Total/NA	Solid	9066	27528
LCS 860-27528/2-A	Lab Control Sample	Total/NA	Solid	9066	27528
LCSD 860-27528/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	27528
LCSD 860-27528/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	27528
860-13405-4 MS	Cell26-101-S-3-4-211007	Total/NA	Solid	9066	27528
860-13405-4 MSD	Cell26-101-S-3-4-211007	Total/NA	Solid	9066	27528

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Leach Batch: 189845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	7 Day Leach	Solid	335.521	
860-13405-2	Cell25-35-S-3-4-211007	7 Day Leach	Solid	335.521	
860-13405-3	Cell25-97-S-3-4-211007	7 Day Leach	Solid	335.521	
860-13405-4	Cell26-101-S-3-4-211007	7 Day Leach	Solid	335.521	
860-13405-5	Cell26-158-S-3-4-211007	7 Day Leach	Solid	335.521	
860-13405-6	Cell26-129-S-3-4-211007	7 Day Leach	Solid	335.521	
860-13405-7	Cell26-49-S-3-4-211007	7 Day Leach	Solid	335.521	

Analysis Batch: 190117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	7 Day Leach	Solid	SM 2540C	189845
860-13405-2	Cell25-35-S-3-4-211007	7 Day Leach	Solid	SM 2540C	189845
860-13405-3	Cell25-97-S-3-4-211007	7 Day Leach	Solid	SM 2540C	189845
MB 560-190117/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-190117/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Analysis Batch: 190143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-4	Cell26-101-S-3-4-211007	7 Day Leach	Solid	SM 2540C	189845
860-13405-5	Cell26-158-S-3-4-211007	7 Day Leach	Solid	SM 2540C	189845
860-13405-6	Cell26-129-S-3-4-211007	7 Day Leach	Solid	SM 2540C	189845
860-13405-7	Cell26-49-S-3-4-211007	7 Day Leach	Solid	SM 2540C	189845
MB 560-190143/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-190143/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 531601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	Dry and Grind	
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	Dry and Grind	
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	Dry and Grind	
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	Dry and Grind	
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	Dry and Grind	
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	Dry and Grind	
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	Dry and Grind	
860-13405-7 DU	Cell26-49-S-3-4-211007	Total/NA	Solid	Dry and Grind	

Prep Batch: 532013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-13405-1	Cell25-21-S-3-4-211007	Total/NA	Solid	Fill_Geo-21	531601
860-13405-2	Cell25-35-S-3-4-211007	Total/NA	Solid	Fill_Geo-21	531601
860-13405-3	Cell25-97-S-3-4-211007	Total/NA	Solid	Fill_Geo-21	531601
860-13405-4	Cell26-101-S-3-4-211007	Total/NA	Solid	Fill_Geo-21	531601
860-13405-5	Cell26-158-S-3-4-211007	Total/NA	Solid	Fill_Geo-21	531601
860-13405-6	Cell26-129-S-3-4-211007	Total/NA	Solid	Fill_Geo-21	531601
860-13405-7	Cell26-49-S-3-4-211007	Total/NA	Solid	Fill_Geo-21	531601
MB 160-532013/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-532013/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
860-13405-7 DU	Cell26-49-S-3-4-211007	Total/NA	Solid	Fill_Geo-21	531601

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-21-S-3-4-211007
Lab Sample ID: 860-13405-1
Date Collected: 10/07/21 08:48
Matrix: Solid
Date Received: 10/09/21 10:00

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	189869	10/14/21 14:54	RJT	XEN CC
Total/NA	Prep	3550C			30.02 g	1 mL	26116	10/13/21 07:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	26332	10/13/21 22:48	T1S	XEN STF
Total/NA	Prep	3546			15.31 g	1 mL	552381	10/21/21 07:41	BKL	TAL PEN
Total/NA	Analysis	8270D		1			552737	10/23/21 10:01	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			7.7 g	10 mL	26584	10/14/21 12:07	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			26663	10/15/21 04:47	T1S	XEN STF
Total/NA	Prep	3550C			30.03 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8081B		1			26940	10/18/21 17:24	KM	XEN STF
Total/NA	ISM Prep	Increment, prep					553371	10/13/21 11:35	EKB	TAL DEN
Total/NA	Prep	8330B			10.71 g	40 mL	554181	10/19/21 16:26	DCL	TAL DEN
Total/NA	Analysis	8330B		1			554314	10/20/21 20:50	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.95 g	50 mL	27972	10/23/21 09:07	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	27878	10/24/21 14:28	ANP	XEN STF
Total/NA	Prep	300_Prep			4.95 g	50 mL	27972	10/23/21 09:07	ANP	XEN STF
Total/NA	Analysis	9056A		1			27879	10/24/21 14:28	ANP	XEN STF
Total/NA	Prep	6860			10.41 g	100 mL	553699	10/15/21 15:58	TEH	TAL DEN
Total/NA	Analysis	6860		1			554104	10/19/21 14:29	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.29 g	20 mL	553597	10/14/21 17:30	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553934	10/18/21 08:18	AGCM	TAL DEN
Total/NA	Prep	3051A			.53 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26536	10/13/21 22:14	DCL	XEN STF
Total/NA	Prep	3051A			.53 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26725	10/14/21 18:44	DCL	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	26325	10/13/21 09:45	AGR	XEN STF
Total/NA	Analysis	7471A		1			26438	10/13/21 13:34	SHZ	XEN STF
Total/NA	Prep	9012A			0.4998 mL	6 mL	27562	10/21/21 11:00	YVD	XEN STF
Total/NA	Analysis	9012A		1			27622	10/21/21 16:37	YVD	XEN STF
Soluble	Leach	DI Leach			20.08 g	20 mL	26605	10/14/21 14:13	JP	XEN STF
Soluble	Analysis	9045D		1	20.08 g	20 mL	26608	10/14/21 14:34	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.1946 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 11:46	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26221	10/12/21 13:07	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189845	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	531601	10/13/21 14:13	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			352.5000 g	1.0 g	532013	10/15/21 12:56	DCH	TAL SL
Total/NA	Analysis	GA-01-R		1			535387	11/08/21 18:46	CAH	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-21-S-3-4-211007
Lab Sample ID: 860-13405-1
Date Collected: 10/07/21 08:48
Matrix: Solid
Date Received: 10/09/21 10:00
Percent Solids: 72.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	26001	10/11/21 11:34	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27211	10/19/21 21:11	NA	XEN STF
Total/NA	Prep	3550C			30.03 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8082A		1			26386	10/13/21 15:59	JAL	XEN STF

Client Sample ID: Cell25-35-S-3-4-211007
Lab Sample ID: 860-13405-2
Date Collected: 10/07/21 09:08
Matrix: Solid
Date Received: 10/09/21 10:00

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	189836	10/13/21 17:36	RJT	XEN CC
Total/NA	Prep	3550C			30.03 g	1 mL	26116	10/13/21 07:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	26507	10/14/21 16:22	LPL	XEN STF
Total/NA	Prep	3550C	RA		30.03 g	1 mL	26116	10/13/21 07:18	JN	XEN STF
Total/NA	Analysis	8270D	RA	1			26506	10/14/21 19:00	LPL	XEN STF
Total/NA	Prep	3546			15.08 g	1 mL	552381	10/21/21 07:41	BKL	TAL PEN
Total/NA	Analysis	8270D		1			552737	10/23/21 10:27	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	26584	10/14/21 12:07	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			26663	10/15/21 05:04	T1S	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8081B		1			26940	10/18/21 17:38	KM	XEN STF
Total/NA	ISM Prep	Increment, prep					553371	10/13/21 11:35	EKB	TAL DEN
Total/NA	Prep	8330B			10.62 g	40 mL	554181	10/19/21 16:26	DCL	TAL DEN
Total/NA	Analysis	8330B		1			554314	10/20/21 21:59	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.92 g	50 mL	27972	10/23/21 09:07	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	27878	10/24/21 14:59	ANP	XEN STF
Total/NA	Prep	300_Prep			4.92 g	50 mL	27972	10/23/21 09:07	ANP	XEN STF
Total/NA	Analysis	9056A		1			27879	10/24/21 14:59	ANP	XEN STF
Total/NA	Prep	6860			10.65 g	100 mL	553699	10/15/21 15:58	TEH	TAL DEN
Total/NA	Analysis	6860		1			554104	10/19/21 14:35	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.46 g	20 mL	553597	10/14/21 17:30	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553934	10/18/21 08:26	AGCM	TAL DEN
Total/NA	Prep	3051A			.52 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26536	10/13/21 22:17	DCL	XEN STF
Total/NA	Prep	3051A			.52 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26725	10/14/21 18:47	DCL	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	26325	10/13/21 09:45	AGR	XEN STF
Total/NA	Analysis	7471A		1			26438	10/13/21 13:38	SHZ	XEN STF
Total/NA	Prep	9012A			0.4978 mL	6 mL	27562	10/21/21 11:00	YVD	XEN STF
Total/NA	Analysis	9012A		1			27622	10/21/21 16:38	YVD	XEN STF
Soluble	Leach	DI Leach			20.15 g	20 mL	26605	10/14/21 14:13	JP	XEN STF
Soluble	Analysis	9045D		1	20.15 g	20 mL	26608	10/14/21 14:34	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.1001 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 11:49	DTN	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-35-S-3-4-211007 Lab Sample ID: 860-13405-2
Date Collected: 10/07/21 09:08 **Matrix: Solid**
Date Received: 10/09/21 10:00

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			26221	10/12/21 13:07	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189845	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	531601	10/13/21 14:13	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			329.5000 g	1.0 g	532013	10/15/21 12:56	DCH	TAL SL
Total/NA	Analysis	GA-01-R		1			535422	11/08/21 18:37	CAH	TAL SL

Client Sample ID: Cell25-35-S-3-4-211007 Lab Sample ID: 860-13405-2
Date Collected: 10/07/21 09:08 **Matrix: Solid**
Date Received: 10/09/21 10:00 **Percent Solids: 88.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	26001	10/11/21 11:38	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27211	10/19/21 21:28	NA	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8082A		1			26386	10/13/21 16:09	JAL	XEN STF

Client Sample ID: Cell25-97-S-3-4-211007 Lab Sample ID: 860-13405-3
Date Collected: 10/07/21 09:36 **Matrix: Solid**
Date Received: 10/09/21 10:00

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	5.26 g	5 mL	189836	10/13/21 18:02	RJT	XEN CC
Total/NA	Prep	3550C			30.01 g	1 mL	26116	10/13/21 07:18	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	26507	10/14/21 16:45	LPL	XEN STF
Total/NA	Prep	3550C	RA		30.01 g	1 mL	26116	10/13/21 07:18	JN	XEN STF
Total/NA	Analysis	8270D	RA	1			26506	10/14/21 19:20	LPL	XEN STF
Total/NA	Prep	3546			15.30 g	1 mL	552381	10/21/21 07:41	BKL	TAL PEN
Total/NA	Analysis	8270D		1			552737	10/23/21 10:53	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			9.75 g	10 mL	26584	10/14/21 12:07	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			26663	10/15/21 05:23	T1S	XEN STF
Total/NA	Prep	3550C			30.01 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8081B		1			26940	10/18/21 17:52	KM	XEN STF
Total/NA	ISM Prep	Increment, prep					553371	10/13/21 11:35	EKB	TAL DEN
Total/NA	Prep	8330B			10.26 g	40 mL	554181	10/19/21 16:26	DCL	TAL DEN
Total/NA	Analysis	8330B		1			554314	10/20/21 23:08	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.99 g	50 mL	27972	10/23/21 09:07	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	27878	10/24/21 15:10	ANP	XEN STF
Total/NA	Prep	300_Prep			4.99 g	50 mL	27972	10/23/21 09:07	ANP	XEN STF
Total/NA	Analysis	9056A		1			27879	10/24/21 15:10	ANP	XEN STF
Total/NA	Prep	6860			10.14 g	100 mL	553699	10/15/21 15:58	TEH	TAL DEN
Total/NA	Analysis	6860		1			554104	10/19/21 14:40	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.31 g	20 mL	553597	10/14/21 17:30	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553934	10/18/21 08:35	AGCM	TAL DEN

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-97-S-3-4-211007 Lab Sample ID: 860-13405-3

Date Collected: 10/07/21 09:36 **Matrix: Solid**
Date Received: 10/09/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.55 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26536	10/13/21 22:20	DCL	XEN STF
Total/NA	Prep	3051A			.55 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26725	10/14/21 18:51	DCL	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	26325	10/13/21 09:45	AGR	XEN STF
Total/NA	Analysis	7471A		1			26438	10/13/21 13:45	SHZ	XEN STF
Total/NA	Prep	9012A			0.4986 mL	6 mL	27562	10/21/21 11:00	YVD	XEN STF
Total/NA	Analysis	9012A		1			27622	10/21/21 16:39	YVD	XEN STF
Soluble	Leach	DI Leach			20.18 g	20 mL	26605	10/14/21 14:13	JP	XEN STF
Soluble	Analysis	9045D		1	20.18 g	20 mL	26608	10/14/21 14:34	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.0039 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 12:50	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26221	10/12/21 13:07	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189845	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190117	10/21/21 15:00	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	531601	10/13/21 14:13	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			326.1000 g	1.0 g	532013	10/15/21 12:56	DCH	TAL SL
Total/NA	Analysis	GA-01-R		1			535394	11/08/21 18:39	CAH	TAL SL

Client Sample ID: Cell25-97-S-3-4-211007 Lab Sample ID: 860-13405-3

Date Collected: 10/07/21 09:36 **Matrix: Solid**
Date Received: 10/09/21 10:00 **Percent Solids: 85.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	26001	10/11/21 11:38	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27211	10/19/21 21:45	NA	XEN STF
Total/NA	Prep	3550C			30.01 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8082A		1			26386	10/13/21 16:18	JAL	XEN STF

Client Sample ID: Cell26-101-S-3-4-211007 Lab Sample ID: 860-13405-4

Date Collected: 10/07/21 10:25 **Matrix: Solid**
Date Received: 10/09/21 10:00

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	5.39 g	5 mL	189836	10/13/21 18:27	RJT	XEN CC
Total/NA	Prep	3550C			30.03 g	1 mL	26320	10/13/21 07:51	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	26507	10/14/21 15:11	LPL	XEN STF
Total/NA	Prep	3550C	RA		30.03 g	1 mL	26320	10/13/21 07:51	JN	XEN STF
Total/NA	Analysis	8270D	RA	1			26506	10/14/21 17:58	LPL	XEN STF
Total/NA	Prep	3546			15.16 g	1 mL	552381	10/21/21 07:41	BKL	TAL PEN
Total/NA	Analysis	8270D		1			552998	10/25/21 21:11	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10 g	10 mL	26584	10/14/21 12:07	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			26663	10/15/21 05:41	T1S	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8081B		1			26940	10/18/21 18:06	KM	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-101-S-3-4-211007 Lab Sample ID: 860-13405-4

Date Collected: 10/07/21 10:25 **Matrix: Solid**
Date Received: 10/09/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					553371	10/13/21 11:35	EKB	TAL DEN
Total/NA	Prep	8330B			10.14 g	40 mL	554181	10/19/21 16:26	DCL	TAL DEN
Total/NA	Analysis	8330B		1			554314	10/20/21 23:31	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.00 g	50 mL	27972	10/23/21 09:07	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	27878	10/24/21 15:20	ANP	XEN STF
Total/NA	Prep	300_Prep			5.00 g	50 mL	27972	10/23/21 09:07	ANP	XEN STF
Total/NA	Analysis	9056A		1			27879	10/24/21 15:20	ANP	XEN STF
Total/NA	Prep	6860			10.74 g	100 mL	553699	10/15/21 15:58	TEH	TAL DEN
Total/NA	Analysis	6860		1			554104	10/19/21 14:45	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.39 g	20 mL	553597	10/14/21 17:30	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553934	10/18/21 08:44	AGCM	TAL DEN
Total/NA	Prep	3051A			.54 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26536	10/13/21 22:23	DCL	XEN STF
Total/NA	Prep	3051A			.54 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26725	10/14/21 18:54	DCL	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	26325	10/13/21 09:45	AGR	XEN STF
Total/NA	Analysis	7471A		1			26438	10/13/21 13:46	SHZ	XEN STF
Total/NA	Prep	9012A			0.5011 mL	6 mL	27562	10/21/21 11:00	YVD	XEN STF
Total/NA	Analysis	9012A		1			27622	10/21/21 16:44	YVD	XEN STF
Soluble	Leach	DI Leach			20.01 g	20 mL	27555	10/21/21 13:42	JP	XEN STF
Soluble	Analysis	9045D		1	20.01 g	20 mL	27558	10/21/21 13:54	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.0196 mL	50 mL	27528	10/21/21 08:30	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 12:13	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26221	10/12/21 13:07	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189845	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190143	10/23/21 15:40	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	531601	10/13/21 14:13	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			347.5000 g	1.0 g	532013	10/15/21 12:56	DCH	TAL SL
Total/NA	Analysis	GA-01-R		1			535399	11/08/21 18:42	CAH	TAL SL

Client Sample ID: Cell26-101-S-3-4-211007 Lab Sample ID: 860-13405-4

Date Collected: 10/07/21 10:25 **Matrix: Solid**
Date Received: 10/09/21 10:00 **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	5035			4.96 g	5 mL	26001	10/11/21 11:38	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27211	10/19/21 22:02	NA	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8082A		1			26386	10/13/21 16:28	JAL	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-158-S-3-4-211007
Lab Sample ID: 860-13405-5
Date Collected: 10/07/21 10:55
Matrix: Solid
Date Received: 10/09/21 10:00

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	5.23 g	5 mL	189836	10/13/21 18:52	RJT	XEN CC
Total/NA	Prep	3550C			30.06 g	1 mL	26320	10/13/21 07:51	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	26507	10/14/21 14:48	LPL	XEN STF
Total/NA	Prep	3550C	RA		30.06 g	1 mL	26320	10/13/21 07:51	JN	XEN STF
Total/NA	Analysis	8270D	RA	1			26506	10/14/21 17:37	LPL	XEN STF
Total/NA	Prep	3546			15.50 g	1 mL	552381	10/21/21 07:41	BKL	TAL PEN
Total/NA	Analysis	8270D		1			552737	10/23/21 11:45	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26584	10/14/21 12:07	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			26663	10/15/21 05:59	T1S	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8081B		1			26940	10/18/21 18:20	KM	XEN STF
Total/NA	ISM Prep	Increment, prep					553371	10/13/21 11:35	EKB	TAL DEN
Total/NA	Prep	8330B			10.92 g	40 mL	554181	10/19/21 16:26	DCL	TAL DEN
Total/NA	Analysis	8330B		1			554314	10/21/21 00:17	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.08 g	50 mL	27972	10/23/21 09:07	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	27878	10/24/21 15:30	ANP	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	27972	10/23/21 09:07	ANP	XEN STF
Total/NA	Analysis	9056A		1			27879	10/24/21 15:30	ANP	XEN STF
Total/NA	Prep	6860			10.18 g	100 mL	553699	10/15/21 15:58	TEH	TAL DEN
Total/NA	Analysis	6860		1			554104	10/19/21 14:50	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.95 g	20 mL	553597	10/14/21 17:30	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553934	10/18/21 08:53	AGCM	TAL DEN
Total/NA	Prep	3051A			.56 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26536	10/13/21 22:26	DCL	XEN STF
Total/NA	Prep	3051A			.56 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26725	10/14/21 19:03	DCL	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	26325	10/13/21 09:45	AGR	XEN STF
Total/NA	Analysis	7471A		1			26438	10/13/21 13:47	SHZ	XEN STF
Total/NA	Prep	9012A			0.4981 mL	6 mL	27562	10/21/21 11:00	YVD	XEN STF
Total/NA	Analysis	9012A		1			27622	10/21/21 16:45	YVD	XEN STF
Soluble	Leach	DI Leach			20.03 g	20 mL	27555	10/21/21 13:42	JP	XEN STF
Soluble	Analysis	9045D		1	20.03 g	20 mL	27558	10/21/21 13:54	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.0284 mL	50 mL	27528	10/21/21 11:31	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 12:21	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26221	10/12/21 13:07	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189845	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190143	10/23/21 15:40	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	531601	10/13/21 14:13	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			359.9000 g	1.0 g	532013	10/15/21 12:56	DCH	TAL SL
Total/NA	Analysis	GA-01-R		1			535420	11/08/21 18:40	CAH	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-158-S-3-4-211007 Lab Sample ID: 860-13405-5

Date Collected: 10/07/21 10:55 **Matrix: Solid**
Date Received: 10/09/21 10:00 **Percent Solids: 74.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	26001	10/11/21 11:38	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27086	10/19/21 15:49	NA	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8082A		1			26386	10/13/21 16:37	JAL	XEN STF

Client Sample ID: Cell26-129-S-3-4-211007 Lab Sample ID: 860-13405-6

Date Collected: 10/07/21 11:24 **Matrix: Solid**
Date Received: 10/09/21 10:00

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	5.06 g	5 mL	189836	10/13/21 19:18	RJT	XEN CC
Total/NA	Prep	3550C			30.03 g	1 mL	26320	10/13/21 07:51	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	26507	10/14/21 15:35	LPL	XEN STF
Total/NA	Prep	3550C	RA		30.03 g	1 mL	26320	10/13/21 07:51	JN	XEN STF
Total/NA	Analysis	8270D	RA	1			26506	10/14/21 18:19	LPL	XEN STF
Total/NA	Prep	3546			15.18 g	1 mL	552381	10/21/21 07:41	BKL	TAL PEN
Total/NA	Analysis	8270D		1			552737	10/23/21 12:11	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	26584	10/14/21 12:07	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			26663	10/15/21 06:17	T1S	XEN STF
Total/NA	Prep	3550C			30.06 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8081B		1			26940	10/18/21 18:34	KM	XEN STF
Total/NA	ISM Prep	Increment, prep					553371	10/13/21 11:35	EKB	TAL DEN
Total/NA	Prep	8330B			10.25 g	40 mL	554181	10/19/21 16:26	DCL	TAL DEN
Total/NA	Analysis	8330B		1			554314	10/21/21 00:40	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.07 g	50 mL	27972	10/23/21 09:07	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	27878	10/24/21 16:01	ANP	XEN STF
Total/NA	Prep	300_Prep			5.07 g	50 mL	27972	10/23/21 09:07	ANP	XEN STF
Total/NA	Analysis	9056A		1			27879	10/24/21 16:01	ANP	XEN STF
Total/NA	Prep	6860			10.58 g	100 mL	553699	10/15/21 15:58	TEH	TAL DEN
Total/NA	Analysis	6860		1			554104	10/19/21 14:55	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.31 g	20 mL	553597	10/14/21 17:30	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553934	10/18/21 09:10	AGCM	TAL DEN
Total/NA	Prep	3051A			.53 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26536	10/13/21 22:30	DCL	XEN STF
Total/NA	Prep	3051A			.53 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26725	10/14/21 19:06	DCL	XEN STF
Total/NA	Prep	7471A			.54 g	50 mL	26325	10/13/21 09:45	AGR	XEN STF
Total/NA	Analysis	7471A		1			26438	10/13/21 13:49	SHZ	XEN STF
Total/NA	Prep	9012A			0.4992 mL	6 mL	27562	10/21/21 11:00	YVD	XEN STF
Total/NA	Analysis	9012A		1			27622	10/21/21 16:46	YVD	XEN STF
Soluble	Leach	DI Leach			20.03 g	20 mL	27555	10/21/21 13:42	JP	XEN STF
Soluble	Analysis	9045D		1	20.03 g	20 mL	27558	10/21/21 13:54	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.0031 mL	50 mL	27528	10/21/21 11:31	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 12:24	DTN	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-129-S-3-4-211007 Lab Sample ID: 860-13405-6

Date Collected: 10/07/21 11:24 **Matrix: Solid**
Date Received: 10/09/21 10:00

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			26221	10/12/21 13:07	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189845	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190143	10/23/21 15:40	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	531601	10/13/21 14:13	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			379.6000 g	1.0 g	532013	10/15/21 12:56	DCH	TAL SL
Total/NA	Analysis	GA-01-R		1			535402	11/08/21 18:40	CAH	TAL SL

Client Sample ID: Cell26-129-S-3-4-211007 Lab Sample ID: 860-13405-6

Date Collected: 10/07/21 11:24 **Matrix: Solid**
Date Received: 10/09/21 10:00 **Percent Solids: 86.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	26001	10/11/21 11:38	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27086	10/19/21 16:06	NA	XEN STF
Total/NA	Prep	3550C			30.06 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8082A		1			26386	10/13/21 16:47	JAL	XEN STF

Client Sample ID: Cell26-49-S-3-4-211007 Lab Sample ID: 860-13405-7

Date Collected: 10/07/21 11:51 **Matrix: Solid**
Date Received: 10/09/21 10:00

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	5.97 g	5 mL	189836	10/13/21 19:43	RJT	XEN CC
Total/NA	Prep	3550C			30.04 g	1 mL	26320	10/13/21 07:51	JN	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	26507	10/14/21 15:58	LPL	XEN STF
Total/NA	Prep	3550C	RA		30.04 g	1 mL	26320	10/13/21 07:51	JN	XEN STF
Total/NA	Analysis	8270D	RA	1			26506	10/14/21 18:39	LPL	XEN STF
Total/NA	Prep	3546			15.06 g	1 mL	552381	10/21/21 07:41	BKL	TAL PEN
Total/NA	Analysis	8270D		1			552737	10/23/21 12:37	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	26584	10/14/21 12:07	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			26663	10/15/21 06:34	T1S	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8081B		1			26940	10/18/21 18:47	KM	XEN STF
Total/NA	ISM Prep	Increment, prep					553371	10/13/21 11:35	EKB	TAL DEN
Total/NA	Prep	8330B			10.66 g	40 mL	554181	10/19/21 16:26	DCL	TAL DEN
Total/NA	Analysis	8330B		1			554314	10/21/21 01:03	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.00 g	50 mL	27972	10/23/21 09:07	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	27878	10/24/21 16:12	ANP	XEN STF
Total/NA	Prep	300_Prep			5.00 g	50 mL	27972	10/23/21 09:07	ANP	XEN STF
Total/NA	Analysis	9056A		1			27879	10/24/21 16:12	ANP	XEN STF
Total/NA	Prep	6860			10.82 g	100 mL	553699	10/15/21 15:58	TEH	TAL DEN
Total/NA	Analysis	6860		1			554104	10/19/21 15:16	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.47 g	20 mL	553597	10/14/21 17:30	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			553934	10/18/21 09:19	AGCM	TAL DEN

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-49-S-3-4-211007 Lab Sample ID: 860-13405-7

Date Collected: 10/07/21 11:51 **Matrix: Solid**
Date Received: 10/09/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26536	10/13/21 22:33	DCL	XEN STF
Total/NA	Prep	3051A			.57 g	50 mL	26205	10/12/21 11:40	PB	XEN STF
Total/NA	Analysis	6020A		10			26725	10/14/21 19:09	DCL	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	26406	10/13/21 11:41	AGR	XEN STF
Total/NA	Analysis	7471A		1			26438	10/13/21 14:07	SHZ	XEN STF
Total/NA	Prep	9012A			0.5006 mL	6 mL	27562	10/21/21 11:00	YVD	XEN STF
Total/NA	Analysis	9012A		1			27622	10/21/21 16:48	YVD	XEN STF
Soluble	Leach	DI Leach			20.00 g	20 mL	27555	10/21/21 13:42	JP	XEN STF
Soluble	Analysis	9045D		1	20.00 g	20 mL	27558	10/21/21 13:54	JP	XEN STF
Total/NA	Prep	Distill/Phenol			5.0205 mL	50 mL	27528	10/21/21 11:31	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	27788	10/22/21 12:26	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			26221	10/12/21 13:07	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	189845	10/13/21 12:45	LR	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	190143	10/23/21 15:40	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	531601	10/13/21 14:13	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			353.1000 g	1.0 g	532013	10/15/21 12:56	DCH	TAL SL
Total/NA	Analysis	GA-01-R		1			535400	11/08/21 18:45	CAH	TAL SL

Client Sample ID: Cell26-49-S-3-4-211007 Lab Sample ID: 860-13405-7

Date Collected: 10/07/21 11:51 **Matrix: Solid**
Date Received: 10/09/21 10:00 **Percent Solids: 77.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	26001	10/11/21 11:38	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	27211	10/19/21 22:19	NA	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	26133	10/12/21 08:39	JN	XEN STF
Total/NA	Analysis	8082A		1			26386	10/13/21 16:57	JAL	XEN STF

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 Xenco, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471
XEN STF = Eurofins Xenco, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Xenco

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	12-16-21

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	11-02-21
A2LA	ISO/IEC 17025	2907.01	11-02-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-28-22
Arizona	State	AZ0713	12-19-21
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	01-08-22
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	12-31-21
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-26-21
Nevada	State	CO000262020-1	11-21-21
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	12-14-21
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-21
North Dakota	State	R-034	01-08-22
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-22
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	11-02-21
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 *
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	11-29-21
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-21

Laboratory: Eurofins Pensacola

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

Eurofins Xenco

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Pensacola (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
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	10-31-21
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-21
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-21
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	12-31-21
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-22
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	12-31-21

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	04-06-22
Arizona	State	AZ0813	12-08-21
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
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	01-01-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-21
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-13405-1
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
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	12-27-21
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	11-18-21
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	03-01-22
South Carolina	State	85002001	12-12-21
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

Laboratory: Eurofins Xenco

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

Method Summary

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

Job ID: 860-13405-1

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
Increment, prep	ISM - Dry, Disaggregate, Sieve, 2 D Slabcake Subsample	EPA	TAL DEN
PFC leach	Leaching procedure for PFAS	TAL-DEN	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: 860-13405-1

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 Xenco, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = Eurofins Xenco, 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: 860-13405-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-13405-1	Cell25-21-S-3-4-211007	Solid	10/07/21 08:48	10/09/21 10:00
860-13405-2	Cell25-35-S-3-4-211007	Solid	10/07/21 09:08	10/09/21 10:00
860-13405-3	Cell25-97-S-3-4-211007	Solid	10/07/21 09:36	10/09/21 10:00
860-13405-4	Cell26-101-S-3-4-211007	Solid	10/07/21 10:25	10/09/21 10:00
860-13405-5	Cell26-158-S-3-4-211007	Solid	10/07/21 10:55	10/09/21 10:00
860-13405-6	Cell26-129-S-3-4-211007	Solid	10/07/21 11:24	10/09/21 10:00
860-13405-7	Cell26-49-S-3-4-211007	Solid	10/07/21 11:51	10/09/21 10:00

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Eurofins Xenco, Stafford
4147 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

860-13405 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: Tony Stonecipher	Lab PM: Kudchadkar Sachin	COC No: 860-4906-1683.1
Client Contact: Alison Schaffer	Phone: 432-288-0876	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:
City: Highlands Ranch	TAT Requested (days):		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:
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 (Wwater, 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 (MOD) Radium-226/228	8860 Standard 8260 list	8330B (MOD) DOD Subset	PFC (MOD) Custom List	8270D_AgChem (MOD) Copy Analytes	2540C Local Method	8260B (MOD) mod	8260C_SIM 1,4-Dioxane	8015MOD_NM (MOD) Copy Analytes	6020A, 7471A, 8081B, 8082A, 8270D, 6012A, 9046D, 9056A_ORGFM_28D, 9056A_ORGFM_48H, 9066				Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N	N	N					
Cell 25-21-5-3-4-211007	10/7/21	0848	G	Solid			X	X	X	X	X	X	X	X	X	X					
Cell 25-35-5-3-4-211007	10/7/21	0905	G	Solid			X	X	X	X	X	X	X	X	X	X					
Cell 25-97-5-3-4-211007	10/7/21	0836	G	Solid			X	X	X	X	X	X	X	X	X	X					
Cell 26-101-5-3-4-211007	10/7/21	1025	G	Solid			X	X	X	X	X	X	X	X	X	X					
Cell 26-158-5-3-4-211007	10/7/21	1050	G	Solid			X	X	X	X	X	X	X	X	X	X					
Cell 26-129-5-3-4-211007	10/7/21	1124	G	Solid			X	X	X	X	X	X	X	X	X	X					
Cell 26-49-5-3-4-211007	10/7/21	1151	G	Solid			X	X	X	X	X	X	X	X	X	X					
				Solid																	
				Solid																	
				Solid																	
				Solid																	

Temp: 2.1 C/F +0.2 Corrected Temp: 2.3 IR ID:HOU-272
Temp: 4.1 C/F +0.2 Corrected Temp: 4.3 IR ID:HOU-272
Temp: 0.1 C/F +0.2 Corrected Temp: 0.3 IR ID:HOU-272
Temp: 1.1 C/F +0.2 Corrected Temp: 1.3 IR ID:HOU-272
Temp: 2.5 C/F +0.2 Corrected Temp: 2.7 IR ID:HOU-272
Temp: 3.4 C/F +0.2 Corrected Temp: 3.6 IR ID:HOU-272
Temp: 2.7 C/F +0.2 Corrected Temp: 2.9 IR ID:HOU-272

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

Sample Disposal (A fee may be assessed if samples are retained)
☐ Return To Client ☒ Disposal By Lab ☐ Archive

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 Stonecipher	10/7/21 1222	ARCADIS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				10/8/21 10:00	
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: 4/7/2022 9:53:37 AM

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1/7/2022 (Rev. 1)

Released to Imaging: 4/20/2022 8:49:45 AM

Released to Imaging: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 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: 860-6438.1
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 #: 860-13405-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 10/28/2021			
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:						
Cell25-21-5-3-4-211007 (860-13405-1)	10/7/21	08:48 Central		Solid			X	2	
Cell25-35-5-3-4-211007 (860-13405-2)	10/7/21	09:08 Central		Solid			X	2	
Cell25-97-5-3-4-211007 (860-13405-3)	10/7/21	09:36 Central		Solid			X	2	
Cell26-101-5-3-4-211007 (860-13405-4)	10/7/21	10:25 Central		Solid			X	2	
Cell26-158-5-3-4-211007 (860-13405-5)	10/7/21	10:55 Central		Solid			X	2	
Cell26-129-5-3-4-211007 (860-13405-6)	10/7/21	11:24 Central		Solid			X	2	
Cell26-49-5-3-4-211007 (860-13405-7)	10/7/21	11:51 Central		Solid			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco 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: [signature]	Date/Time: 10/11/21	Company	Received by:	Date/Time:	Company
Relinquished by: FED EX	Date/Time:	Company	Received by: FED EX Micha Kornfinger	Date/Time: OCT 12 2021 09:05 ETA	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

Released to Imaging: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 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: 860-6438.1
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 #: 860-13405-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 10/28/2021			
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:						
Cell25-21-5-3-4-211007 (860-13405-1)	10/7/21	08:48 Central		Solid			X	2	
Cell25-35-5-3-4-211007 (860-13405-2)	10/7/21	09:08 Central		Solid			X	2	
Cell25-97-5-3-4-211007 (860-13405-3)	10/7/21	09:36 Central		Solid			X	2	
Cell26-101-5-3-4-211007 (860-13405-4)	10/7/21	10:25 Central		Solid			X	2	
Cell26-158-5-3-4-211007 (860-13405-5)	10/7/21	10:55 Central		Solid			X	2	
Cell26-129-5-3-4-211007 (860-13405-6)	10/7/21	11:24 Central		Solid			X	2	
Cell26-49-5-3-4-211007 (860-13405-7)	10/7/21	11:51 Central		Solid			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratones. 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco 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
	10/11/21		FED EX.		
Relinquished by: FED EX	Date/Time:	Company	Received by: Micha Kornhauser	Date/Time: OCT 12 2021 09:05	Company ETA
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:

Released to Imaging: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 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: 860-6437.1
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 #: 860-13405-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 10/27/2021			
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/ISM_DD_SL_SS (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell25-21-5-3-4-211007 (860-13405-1)	10/7/21	08:48 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell25-35-5-3-4-211007 (860-13405-2)	10/7/21	09:08 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell25-97-5-3-4-211007 (860-13405-3)	10/7/21	09:36 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell26-101-5-3-4-211007 (860-13405-4)	10/7/21	10:25 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell26-158-5-3-4-211007 (860-13405-5)	10/7/21	10:55 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell26-129-5-3-4-211007 (860-13405-6)	10/7/21	11:24 Central		Solid			X	X	X	4	, ism subsampling is not required.
Cell26-49-5-3-4-211007 (860-13405-7)	10/7/21	11:51 Central		Solid			X	X	X	4	, ism subsampling is not required.

Note: Since laboratory accreditations are subject to change, Eurofins Xenco 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco 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: 10/8/21 10/11/21	Company	Received by:	Date/Time: 10/12/21 1040	Company EA/OGV
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.: 1738133 1738132	Cooler Temperature(s) °C and Other Remarks: 1.7 0.3 IR1 CF-0.1-0

Ver: 06/08/2021

Released to Imaging: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 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: 860-6440.1
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 #: 860-13405-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 10/28/2021			
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:						
Cell25-21-5-3-4-211007 (860-13405-1)	10/7/21	08:48 Central		Solid			X	1	
Cell25-35-5-3-4-211007 (860-13405-2)	10/7/21	09:08 Central		Solid			X	1	
Cell25-97-5-3-4-211007 (860-13405-3)	10/7/21	09:36 Central		Solid			X	1	
Cell26-101-5-3-4-211007 (860-13405-4)	10/7/21	10:25 Central		Solid			X	1	
Cell26-158-5-3-4-211007 (860-13405-5)	10/7/21	10:55 Central		Solid			X	1	
Cell26-129-5-3-4-211007 (860-13405-6)	10/7/21	11:24 Central		Solid			X	1	
Cell26-49-5-3-4-211007 (860-13405-7)	10/7/21	11:51 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco 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: Orsuda	Date/Time: 10/11/21	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: 10/12/21 0918		Company TAPEN
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 0.0°C IR7 KA				

Ver: 06/08/2021

Released to Imaging: 4/20/2022 8:49:45 AM
Received by OCD: 4/7/2022 9:53:37 AM

Eurofins Xenco, Stafford
4147 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: 860-6439.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Texas		Job #: 860-13405-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 10/27/2021			
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, 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:

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)	8260B/5030B_Solid (MOD) mod	2540C/TX_7Day_T	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell25-21-5-3-4-211007 (860-13405-1)	10/7/21	08:48 Central		Solid			X	X	1	
Cell25-35-5-3-4-211007 (860-13405-2)	10/7/21	09:08 Central		Solid			X	X	1	
Cell25-97-5-3-4-211007 (860-13405-3)	10/7/21	09:36 Central		Solid			X	X	1	
Cell26-101-5-3-4-211007 (860-13405-4)	10/7/21	10:25 Central		Solid			X	X	1	
Cell26-158-5-3-4-211007 (860-13405-5)	10/7/21	10:55 Central		Solid			X	X	1	
Cell26-129-5-3-4-211007 (860-13405-6)	10/7/21	11:24 Central		Solid			X	X	1	
Cell26-49-5-3-4-211007 (860-13405-7)	10/7/21	11:51 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco 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
	10/11/21		Caitlyn Forester	10/12/2021 1035	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: 5.2 C6 IR-10 5.1

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-13405-1

Login Number: 13405 **List Source: Eurofins Xenco**
List Number: 1
Creator: Torrez, Lisandra

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.	True	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-13405-1

Login Number: 13405
List Number: 4
Creator: Lee, Jerry

List Source: Eurofins Denver
List Creation: 10/12/21 02:27 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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: 860-13405-1

Login Number: 13405
List Number: 3
Creator: Chambers, Cheryle A

List Source: Eurofins Pensacola
List Creation: 10/12/21 02:22 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°c ir7
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: 860-13405-1

Login Number: 13405 **List Source: Eurofins St. Louis**
List Number: 5 **List Creation: 10/12/21 06:19 PM**
Creator: Korrinhizer, Micha L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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: 860-13405-1

Login Number: 13405
List Number: 2
Creator: Forrester, Caitlyn D

List Source: Eurofins Xenco
List Creation: 10/12/21 10:41 AM

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.

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 A., EMNRD

From: Jones, Brad A., EMNRD
Sent: Wednesday, April 20, 2022 8:47 AM
To: amarti@chevron.com
Cc: Rice, Steve
Subject: NM2-012 Jal Landfarm vadose zone release response action plan
Attachments: 2022 0420 NM2-012 Chevron Vadose Zone Release Response Action Plan approval.pdf

Mr. Martinez,

Please see the attached approval of the February 17, 2022 vadose zone release response action plan for the Jal Landfarm, 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@state.nm.us
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

April 20, 2022

Armando Martinez,
Chevron USA Inc.
354 State Highway 38
Questa, New Mexico 87556-04698
amarti@chevron.com

RE: Approval of the Release Response Action Plan
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) vadose zone release response action plan, dated February 17, 2022. OCD hereby grants CEMC approval of the February 17, 2022 vadose zone release response action plan, with the following recognitions and conditions:

1. CEMC shall comply with all applicable requirements of the Oil and Gas Act (Chapter 70, Article 2 NMSA 1978), the existing permit NM2-012, the transitional provisions of 19.15.36.20 NMAC, and all conditions specified in this approval;

2. CEMC shall comply with the requirements of 19.15.29 NMAC;

3. CEMC shall comply with OCD's April 21, 2021 policy on how to address a release to the vadose zone at a Part 36 landfarm pursuant to Part 29, available at the flowing hyperlink: https://www.emnrd.nm.gov/ocd/wp-content/uploads/sites/6/2021-0421-How-to-address-a-release-to-the-vadose-zone-at-a-Part-36-landfarm-pursuant-to-Part-29.pdf;

4. CEMC shall demonstrate compliance of the requirements of 19.15.29 NMAC (Part 29) by providing a copy of the delineation and remediation work performed to address the release and OCD's approval of the closure of the release in each landfarm cell to update the administrative record of permit NM2-012 and to document potential new Part 29 background concentrations only applicable to the areas assessed for the release; and

5. CEMC shall obtain written approval from OCD prior to implementing any changes to the February 17, 2022 vadose zone release response action plan.

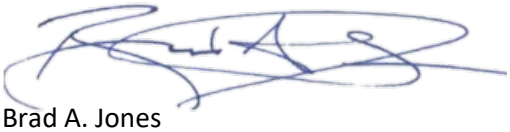
Please be advised that approval of this request does not relieve CEMC of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve CEMC of its responsibility to comply with any other applicable governmental authority's rules and regulations.

Please ensure in future release response sampling events that the four randomly selected, independent samples required of 19.15.36.15.E(5) NMAC are randomly located around the sample location(s) of the initial detection within each landfarm cell that prompted the release response sampling, instead of randomly taking the four samples across the 4-5 acre landfarm cell. CEMC should be assessing the individual detected releases from the routine vadose zone monitoring during the release response sampling required of 19.15.36.15.E(5) NMAC.

OCD wishes to remind CEMC that OCD is awaiting the resubmittal of a revised November 18, 2021 Background Sampling Report, since OCD's Microsoft Teams meeting with Cynthia Gulde and Armando Martinez (Chevron) and Steve Rice, Alison Schaffer, and Kylie Arnold (Arcadis) on February 10, 2022 regarding OCD's review of the Background Sampling Report submitted to OCD on December 14, 2021 through OCD Permitting.

If there are any questions regarding this matter, please do not hesitate to email me at brad.a.jones@state.nm.us.

Respectfully,



Brad A. Jones
Environmental Specialist

cc: Steve Rice, Arcadis U.S., Inc., SteveRice@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 96633

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	4323
	Action Number: 96633
	Action Type: [C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

CONDITIONS

Created By	Condition	Condition Date
bjones	OCD emailed the review to Armando Martinez (Chevron) and Steve Rice (Arcadis) on April 20, 2022. Please see the OCD's Response attached to the bottom of the report for the conditions of approval.	4/20/2022