



Armando Martinez
Operations Lead, Portfolio Operations Central

July 12, 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 2021 Annual Report

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 permit requirements, we are submitting for your review and comment the following document (in electronic Adobe PDF format):

2021 Annual Report dated July 2022

This report was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of CEMC to document annual activities performed for CEMC during the 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,

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

Armando Martinez

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

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



Chevron Environmental Management Company

2021 Annual Report

Jal Landfarm (NM-02-0012)

Centralized Surface Waste Management Facility

Lea County, New Mexico

July 2022

2021 Annual Report

2021 Annual Report

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

July 2022

Prepared By:

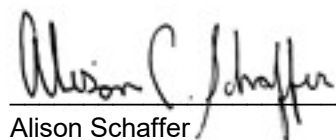
Arcadis U.S., Inc.
630 Plaza Drive, Suite 200
Highlands Ranch
Colorado 80129
Phone: 720 344 3500
Fax: 720 344 3535

Prepared For:

Chevron Environmental Management Company

Our Ref:

30133889



Alison Schaffer
Assistant Project Manager



Ryan Nanny
Project Manager

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or copying of this document is strictly prohibited.

www.arcadis.com

Jal Landfarm 2021 Annual Report_2022.07.12

2021 Annual Report

Contents

Acronyms and Abbreviations.....	iv
1 Introduction.....	1
1.1 Purpose and Objectives.....	1
1.2 Site Description and Background.....	1
2 2021 Operation and Maintenance Activities.....	3
3 2021 Monitoring Activities.....	4
3.1 Background Sampling.....	4
3.2 Vadose Zone Sampling	5
3.3 Treatment Zone Sampling.....	6
3.4 Release Response Sampling	6
4 2021 Monitoring Results.....	9
4.1 Background Sampling Results	9
4.2 Vadose Zone Sampling Results.....	9
4.3 Treatment Zone Sampling Results	9
4.4 Release Response Sampling Results.....	10
5 Summary	12
6 References	13

Tables

Table 1	Summary of 2021 Soil Sampling Events (in text)
Table 2	Background Soil Concentrations (in text)
Table 3	June 2021 Vadose Zone Soil Analytical Results
Table 4	December 2021 Vadose Zone Soil Analytical Results
Table 5	June 2021 Treatment Zone Soil Analytical Results
Table 6	December 2021 Treatment Zone Soil Analytical Results
Table 7	Treatment Zone Closure Performance Standards (in text)
Table 8	October 2021 Release Response Soil Analytical Results: TPH, BTEX, and Chloride
Table 9	October 2021 Release Response Soil Analytical Results: Metals
Table 10	October 2021 Release Response Soil Analytical Results: VOCs

2021 Annual Report

Table 11	October 2021 Release Response Soil Analytical Results: SVOCs
Table 12	October 2021 Release Response Soil Analytical Results: PCBs
Table 13	October 2021 Release Response Soil Analytical Results: Other Constituents
Table 14	October 2021 Release Response Soil Analytical Results: Radium
Table 15	October 2021 Release Response Soil Analytical Results: Pesticides
Table 16	Summary of Constituents Listed in Subsections A and B That Exceeded the Background Soil Concentration or SDL (in text)

Figures

Figure 1	Site Location Map
Figure 2	Background Sampling Locations
Figure 3	June 2021 and Release Response Sample Locations
Figure 4	December 2021 Sample Locations

Appendix

Appendix A	Laboratory Reports

2021 Annual Report

Acronyms and Abbreviations

amsl	above mean sea level
Arcadis	Arcadis U.S., Inc.
Background SAP	Landfarm Background Sampling and Analysis Plan
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
cell	landfarm cell
CEMC	Chevron Environmental Management Company
DRO	diesel range organics
GRO	gasoline range organics
mg/kg	milligram per kilogram
NMAC	New Mexico Administrative Code
NMOCD	New Mexico Oil Conservation Division
ORO	oil range organics
PQL	practical quantitation limit
SAP	Draft Landfarm Operations, Sampling and Analysis Plan
SDL	sample detection limit
Site	Jal Landfarm (NM-02-0012), a centralized surface waste management facility located in Lea County, New Mexico
Stantec	Stantec Consulting Services Inc.
TPH	total petroleum hydrocarbons
Transitional Provisions	provision 19.15.36.20 of New Mexico Administrative Code 19.15.36 (Part 36)
USEPA	United States Environmental Protection Agency
WQCC	Water Quality Control Commission

2021 Annual Report

1 Introduction

On behalf of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) prepared this 2021 Annual Report for the Jal Landfarm (NM-02-0012), a centralized surface waste management facility 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 2003a, 2004). On February 14, 2007, Rule 711 was repealed and replaced by 19.15.36 New Mexico Administrative Code (NMAC; February 14, 2007, as amended through June 30, 2016), commonly referred to as Part 36. On December 24, 2020, the NMOCD approved a minor permit modification request (Arcadis 2020b) 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). Field activities performed in 2021 were conducted in accordance with the requirements of permit NM-02-0012 and Part 36.

1.1 Purpose and Objectives

As specified in provision 19.15.36.15 NMAC, active landfarms require routine operation, maintenance, and monitoring activities to remediate impacted soils and verify that impacts do not migrate into the vadose zone. In 2021, field activities were performed at the Site to meet the following objectives:

- Maintain berms around each active landfarm cell (cell) to prevent rainwater run-on and run-off
- Perform weekly site inspections to assess site conditions
- Remove standing water from active cells within 24 hours of discovery
- Perform semiannual vadose zone and treatment zone monitoring
- Perform release response soil sampling if a potential release is identified, as defined by provision 19.15.36.15.E(5) NMAC
- Maintain records of the site remediation activities and monitoring reports.

This 2021 Annual Report summarizes the 2021 field activities performed at the Site and the associated monitoring results.

1.2 Site Description and Background

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 is located within the Tertiary-age Ogallala Formation, which comprises fluvial sand, silt, clay, and localized gravel. A caliche layer, approximately 9 to 21 feet thick, forms a hard, erosion-resistant pedogenic calcrete approximately 4 feet below ground surface (bgs). Caliche has been observed as shallow at 1½ to 3 feet bgs at the Site. The Ogallala Formation is underlain by the Chinle Formation, which comprises clay, silty clay, shale, and sandstone. The nearest freshwater well (CP-00970) is located in the northeast ¼ of southeast ¼, Section 8, Township 24 south, and range 36 east. The well is

2021 Annual Report

located approximately 0.8 mile northeast of the Site. According to the New Mexico Office of the State Engineer, the well was drilled to 198 feet bgs and groundwater was encountered at approximately 180 feet bgs. The ground surface elevation of CP-00970 is approximately 3,396 feet above mean sea level (amsl). The ground surface elevation of the landfarm ranges from approximately 3,364 feet amsl at the eastern boundary to approximately 3,390 feet amsl at the western boundary. Based on the groundwater elevation at CP 00970 and ground surface elevation data from the landfarm, the depth to water beneath the landfarm is expected to range from 148 to 174 feet bgs. Regional groundwater flows from northwest to southeast (Stantec Consulting Services Inc. [Stantec] 2017).

The Site was originally approved for 56 cells to be constructed over approximately 320 acres; however, only 26 cells were constructed (Cells 1 through 26). Each cell is approximately 300 by 625 feet (approximately 4.3 acres). On July 29, 2003, the NMOCD approved discontinuation of maintenance for cells 1 through 16 because the soil was treated to applicable standards required under permit NM-02-0012 and no additional soil lifts were planned for these cells (NMOCD 2003b). On February 19, 2008, the NMOCD approved the discontinuation of maintenance for cells 22, 23, and 24 because the treatment zone closure performance standards were met (NMOCD 2008). Active maintenance has continued at Cells 17, 18, 19, 20, 21, 25, and 26; however, no soil has been added to these cells since 2007.

On August 14, 2020, the NMOCD approved a Background Sampling and Analysis Plan (Background SAP; Arcadis 2020a), which presents a sampling and analysis plan for establishing site background soil concentrations in accordance with provision 19.15.26.15(B) NMAC. Background sampling was performed in March 2021 and a Background Sampling Report was submitted to the NMOCD on November 21, 2021 (Arcadis 2021); the NMOCD approved the Background Sampling Report on May 27, 2022 (NMOCD 2022).

2021 Annual Report

2 2021 Operation and Maintenance Activities

Operation and maintenance activities performed at the Site in 2021 consisted of weekly site inspections. These activities are consistent with those required by permit NM-02-0012 and Part 36.

Weekly inspections were performed at the Site to assess conditions and verify the integrity of the following site features and equipment:

- Entrance gate, signage, and site fence
- Intact berms around each active cell
- Presence of standing water within the active cells
- Maintenance equipment.

Results of the weekly site inspections indicated that site features and equipment remained intact and in good working order throughout the year. To prevent potential pooling of surface water in active cells, precipitation forecasts and actual precipitation accumulation measurements were tracked daily. Following large precipitation events, field staff were sent onsite to verify whether standing water was present in active cells. If recoverable water was observed, vacuum trucks were brought onsite to remove the water to the extent practicable.

2021 Annual Report

3 2021 Monitoring Activities

Monitoring activities performed at the Site in 2021 consisted of the following soil sampling events:

- *Background soil sampling event* (March 2021)
- *First semiannual 2021 sampling event.* Vadose zone sampling (June 2021), treatment zone sampling (June 2021), and release response sampling (October 2021)
- *Second semiannual 2021 sampling event.* Vadose zone sampling (December 2021), treatment zone sampling (December 2021)

The background, vadose zone, treatment zone, and release response sampling events, including sampling methods and associated laboratory methods, are described in the following subsections and summarized in Table 1, below. The treatment zone is defined as surface soils (0 to 12 inches bgs) within a cell that were originally impacted by petroleum hydrocarbons and placed in the landfarm for treatment via bioremediation. The vadose zone is defined as native unimpacted subsurface soils that underlie treatment zone soils.

Table 1. Summary of 2021 Soil Sampling Events

Task	Background Sampling	Vadose Zone Sampling	Treatment Zone Sampling	Release Response Sampling
Sampling frequency	Once	Semiannual	Semiannual	Semiannual (if a potential release is identified)
Number of samples collected	1 composite sample (consisting of 16 discrete samples) per cell; Cells 29 through 40	4 discrete samples per active cell	1 composite sample (consisting of 4 discrete samples) per active cell	4 discrete vadose zone samples per active cell (only in those active cells where a potential release is identified)
Sample depth	3 to 4 feet below native ground surface	3 to 4 feet below native ground surface	0 to 6 inches below ground surface	3 to 4 feet below native ground surface
Analyses performed	TPH, BTEX, chloride, constituents in Subsections A and B of provision 20.6.2.3103 NMAC	TPH, BTEX, chloride	TPH, chloride	TPH, BTEX, chloride, constituents in Subsections A and B of provision 20.6.2.3103 NMAC

Notes:

BTEX = benzene, toluene, ethylbenzene, and xylenes

TPH = total petroleum hydrocarbons

3.1 Background Sampling

Background sampling was performed in March 2021 in accordance with the approved Background SAP (Arcadis 2020a). Soil samples were collected from undeveloped cells numbered 29 through 40. A total of 12 composite soil samples (one from each cell) was collected. Each composite sample consisted of 16 discrete samples collected from the locations shown on Figure 2. Samples were collected at a depth of approximately 3 to 4 feet below native ground surface.

2021 Annual Report

The discrete samples were collected by digging a test pit with a backhoe to the desired depth. An aliquot from each discrete sample was transferred from the backhoe bucket to a stainless-steel bowl. The soil from the 16 aliquots was homogenized and transported to laboratory-supplied sample jars, which were labelled and shipped on ice to Eurofins Xenco located in Corpus Christi, Texas for laboratory analysis. The test pit and sample holes were backfilled with the excavated soil. The discrete sample locations were recorded with a Trimble handheld global positioning system (GPS) receiver.

Soil samples were analyzed for the following constituents:

- TPH as DRO, GRO, and ORO by United States Environmental Protection Agency (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.

3.2 Vadose Zone Sampling

Semiannual vadose zone sampling was performed in June and December 2021. During each sampling event, four randomly selected discrete soil samples were collected from the vadose zone of each active cell (Cells 17, 18, 19, 20, 21, 25, and 26). Samples were collected at a depth of approximately 3 to 4 feet below native ground surface. The vadose zone sample locations for each sampling event are shown on Figures 3 and 4.

Prior to sample collection, an approximate 5- by 5-foot area of treatment zone soil was removed using a backhoe to minimize the potential for cross-contamination. The backhoe bucket was then decontaminated using a pressure washer and was used to remove an additional 6 inches of native soil and approximately one and a half feet of caliche from the sample location. Once the desired sample depth was achieved, the backhoe was used to collect representative soil from the vadose zone from which the soil sample was collected. Soil samples were placed into 4-ounce laboratory-supplied sample jars, which were labelled and shipped on ice to Eurofins Xenco located in Stafford, Texas, for laboratory analysis. The discrete sample locations were recorded with a Trimble handheld GPS receiver.

After each discrete sample was collected, the sample location was backfilled with the excavated soil in the order in which it was removed. The backhoe bucket was decontaminated between collection of each discrete sample using a pressure washer.

Soil samples were analyzed for the following constituents:

- TPH as DRO, GRO, and ORO by 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.

2021 Annual Report

3.3 Treatment Zone Sampling

Semiannual treatment zone sampling was performed in June and December 2021. During each sampling event, one composite soil sample, consisting of four randomly selected discrete samples, was collected from the treatment zone of each active cell (cells 17, 18, 19, 20, 21, 25, and 26). Samples were collected at a depth of approximately 6 inches bgs. The treatment zone sample locations for each sampling event are shown on Figures 3 and 4.

Discrete samples were collected using a stainless-steel hand auger. For each cell, the four discrete samples were homogenized in a stainless-steel bowl and placed into a 4-ounce laboratory-supplied sample jar. The sample jars were labelled and shipped on ice to Eurofins Xenco located in Stafford, Texas, for laboratory analysis. The stainless-steel bowl and auger were decontaminated after each use using Alconox® and deionized water.

Soil 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.
- Chloride by USEPA Method 300.0.

3.4 Release Response Sampling

Release response sampling was initiated in response to potential releases of TPH, BTEX, and/or chloride into the vadose zone of active cells (Cells 17, 18, 19, 20, 21, 25, and 26). According to provision 19.15.36.E(5) NMAC, a release is defined as “concentrations of TPH, BTEX, or chlorides [that] exceed the higher of the practical quantitation 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 2 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 2020a; see Section 3.1). The background values presented in the Background Sampling Report (Arcadis 2021) were approved in May 2022 (NMOCD 2022); therefore, soil analytical results collected in 2021 were compared to the 1998 background soil concentrations. Moving forward, the 1998 background soil concentrations will be superseded by the background soil concentrations presented in the Background Sampling Report (Arcadis 2021).

2021 Annual Report

Table 2. Background Soil Concentrations

TPH and 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		

Note:

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 release action plan for the division’s approval within 45 days of the initial notification. The response action plan shall address changes in the landfarm’s operation to prevent further contamination and, if necessary, a plan for remediating existing contamination”.

Results of the vadose zone sampling conducted in June 2021 showed that chloride was detected at concentrations greater than 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 the release response sampling event was performed in October 2021.

During the release response sampling event, four randomly selected discrete soil samples were collected from the vadose zone of cells where the potential release was identified. Samples were collected using the same methodology as described in Section 3.2 The October 2021 release response sampling locations are shown on Figure 3.

Release response soil 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.

Results of the vadose zone sampling in December 2021 showed that DRO and chloride were detected at concentrations greater than the SDL or background soil concentration in Cells 17 (chloride), 18 (chloride), 19

2021 Annual Report

(chloride), 20 (chloride), 21 (DRO), and 25 (chloride); therefore, the release response process was initiated. CEMC notified the NMOCD of the exceedances, and the release response sampling event was performed in January 2022.

2021 Annual Report

4 2021 Monitoring Results

This section discusses the results of the 2021 background, vadose zone, treatment zone, and release response soil sampling events.

4.1 Background Sampling Results

Site-specific background concentrations were established for 152 constituents, which are presented in the Background Sampling Report (Arcadis 2021). The NMOCD approved the background concentrations on May 27, 2022 (NMOCD 2022).

4.2 Vadose Zone Sampling Results

Analytical results from the semiannual vadose zone sampling events are provided in Tables 3 and 4. Laboratory reports are provided in Appendix A.

As discussed in Section 3.4 and specified in provision 19.15.36.15(E)(5) NMAC, vadose zone analytical results were compared to the higher of the SDL or the 1998 background soil concentrations. The 2021 results are summarized below.

- **TPH.** DRO was detected at concentrations greater than the SDL in Cell 21. GRO and ORO concentrations were less than the background soil concentration or SDL in all cells.
- **BTEX.** BTEX concentrations were less than the background soil concentrations in all cells.
- **Chloride.** Chloride was detected at concentrations greater than the background soil concentration in Cells 17, 18, 19, 20, 25, and 26.

4.3 Treatment Zone Sampling Results

Analytical results from the semiannual treatment zone sampling events are provided in Tables 5 and 6. Laboratory reports are provided in Appendix A.

In accordance with provision 19.15.36.15(F) NMAC, treatment of impacted soil is required to continue until the soil has been remediated to the greater of the background soil concentrations or the treatment zone closure performance standards specified in Table 7, below.

During the June and December 2021 sampling events, treatment zone analytical results were less than the closure performance standards for GRO and DRO combined fractions, TPH, and chloride. Benzene and BTEX are not required to be analyzed during semiannual events. In 2018, benzene and BTEX were analyzed in treatment zone samples and the analytical results were less than the applicable closure performance standards.

2021 Annual Report

Table 7. Treatment Zone Closure Performance Standards

Constituent	Treatment Zone Closure Performance Standard
GRO + DRO	500 mg/kg
TPH	2,500 mg/kg
Benzene	0.2 mg/kg
Total BTEX	50 mg/kg
Chloride	1,000 mg/kg

4.4 Release Response Sampling Results

Analytical results from the release response sampling event are provided in Tables 8 through 15. Laboratory reports are provided in Appendix A.

In accordance with provision 19.15.36.15.E(5) NMAC, analytical results for TPH, BTEX, chloride, and the constituents listed in Subsections A and B were compared to the higher of the 1998 background soil concentrations or SDL. The 2021 results are summarized below and in Table 16, 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:**
 - 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.
 - 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

2021 Annual Report

- 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.

Arcadis (on behalf of CEMC) submitted a Release Response Sampling Results and Action Plan to the NMOCD on February 17, 2022 (Arcadis 2022). The report summarizes the vadose zone and release response sampling events and associated results and provides a release response action plan to address the potential release of petroleum-related impacts in the vadose zone of the Site.

Table 16. Summary of Constituents Listed in Subsections A and B That Exceeded the Background Soil Concentration 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 Radium-226 + 228	None
Cell 18	Antimony, barium, copper, iron, manganese, uranium, zinc	None	None	None	Nitrate, nitrite, sulfate, fluoride, cyanide, TDS, perchlorate	Combined Radium-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 Radium-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 Radium-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 Radium-226 + 228	4,4-DDT
Cell 26	Antimony, barium, beryllium, copper, iron, lead, manganese, uranium, zinc	None	None	None	Nitrate, nitrite, sulfate, fluoride, cyanide, TDS, perchlorate	Combined Radium-226 + 228	None

2021 Annual Report

5 Summary

Field activities performed in 2021 were conducted in accordance with the requirements of permit NM-02-0012 and Part 36. Field activities consisted of weekly site inspections, background sampling, semiannual vadose zone and treatment zone monitoring, and release response sampling.

Background sampling was performed in March 2021 in accordance with the approved the Background SAP (Arcadis 2020a). Representative background soil concentrations were presented in a Background Sampling Report, submitted to the NMOCD in November 2021 (Arcadis 2021); the report was approved on May 27, 2022 (NMOCD 2022).

Vadose zone analytical results indicated a potential release of DRO and/or chloride into the vadose zone of active cells 17, 18, 19, 20, 25, and 26; therefore, release response sampling events were subsequently performed in October 2021 and January 2022. After each release response sampling event, Arcadis (on behalf of CEMC) submitted a Release Response Sampling Results and Action Plan to the NMOCD, summarizing the vadose zone and release response sampling results, and the release response action plan to address the potential release.

Treatment zone analytical results were less than the closure performance standards for GRO and DRO combined fractions, TPH, and chloride.

2021 Annual Report

6 References

- Arcadis. 2020a. Background Sampling and Analysis Plan. Jal Landfarm NM-02-0012. Centralized Surface Waste Management Facility, Lea County, New Mexico. June 15.
- Arcadis. 2020b. Minor Permit Modification Request. Jal Landfarm NM-02-0012. Centralized Surface Waste Management Facility, Lea County, New Mexico. September 3.
- Arcadis. 2021. Background Sampling Report. Jal Landfarm NM-02-0012. Centralized Surface Waste Management Facility, Lea County, New Mexico. November 17.
- Arcadis. 2022. Release Response Sampling Results and Action Plan – October 2021. Jal Landfarm NM-02-0012. Centralized Surface Waste Management Facility, Lea County, New Mexico. February 17.
- NMOCD. 1999. OCD Rule 711 Permit Approval NM-01-0012 & NM-02-0013. August 2.
- NMOCD. 2003a. 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. 2003b. Letter from M. Kieling (NMOCD) to R. Bailey (Chevron Texaco) re: Approval of Discontinued Maintenance Status and Application of Additional Lifts, Texaco E&P Inc., Permit NM-02-0012. July 29.
- NMOCD. 2004. Letter from R. Anderson (NMOCD) to R. Bailey (Chevron) re: Chevron USA Inc. Surface Waste
- NMOCD. 2022. Letter from B. Jones (NMOCD) to A. Martinez (Chevron) re: Approval of the Background Sampling Report. Jal Landfarm Permit NM2-012. May 27.
- Stantec. 2017. Draft Landfarm Operations, Sampling and Analysis Plan. Chevron Jal Landfarm Surface Waste Management Facility Number NM-02-0012. September 27.
- Texaco Exploration & Production, Inc. 1998. Application for Waste Management Facility Soil Remediation/Landfarm Facility, Lea County, New Mexico. July 29.

Tables

Table 3
June 2021 Vadose Zone Soil Analytical Results
2021 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent Method Units				DRO 8015B mg/kg		GRO 8015B mg/kg		ORO 8015B mg/kg		TPH ^a 8015B mg/kg		Benzene 8260B mg/kg		Toluene 8260B mg/kg		Ethylbenzene 8260B mg/kg		Xylenes 8260B mg/kg		Chloride 300.0 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
December 2021 Vadose Zone Soil Analytical Results
2021 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent Method Units				DRO 8015B mg/kg		GRO 8015B mg/kg		ORO 8015B mg/kg		TPH ^a 8015B mg/kg		Benzene 8260B mg/kg		Toluene 8260B mg/kg		Ethylbenzene 8260B mg/kg		Xylenes 8260B mg/kg		Chloride 300.0 mg/kg	
Background Soil Concentration				--		< 5.00		--		--		< 0.05		< 0.05		< 0.05		< 0.05		10.0	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square16-S-3-4-211213	12/13/2021	22.9	U	22.9	U	22.9	U	68.7	--	0.000225	U	0.00109	U	0.000365	U	0.00107	U	37.7	
Cell 17	Vadose	Cell17-Square116-S-3-4-211213	12/13/2021	22.6	U	22.6	U	22.6	U	67.8	--	0.000222	U	0.00107	U	0.000361	U	0.00106	U	10.5	J
Cell 17	Vadose	Cell17-Square120-S-3-4-211213	12/13/2021	22.5	U	22.5	U	22.5	U	67.5	--	0.000219	U	0.00106	U	0.000356	U	0.00104	U	7.26	J
Cell 17	Vadose	Cell17-Square130-S-3-4-211213	12/13/2021	25.1	U	25.1	U	25.1	U	75.3	--	0.000246	U	0.00119	U	0.000399	U	0.00117	U	75.9	
Cell 18	Vadose	Cell18-Square14-S-3-4-211213	12/13/2021	24.3	U	24.3	U	24.3	U	72.9	--	0.000275	J	0.00161	J	0.000382	U	0.00112	U	43.0	
Cell 18	Vadose	Cell18-Square22-S-3-4-211213	12/13/2021	28.0	U	28.0	U	28.0	U	84	--	0.000275	U	0.00133	U	0.000446	U	0.00131	U	7.90	J
Cell 18	Vadose	Cell18-Square156-S-3-4-211213	12/13/2021	23.3	U	23.3	U	23.3	U	69.9	--	0.000227	U	0.00110	U	0.000368	U	0.00108	U	5.77	J
Cell 18	Vadose	Cell18-Square175-S-3-4-211213	12/13/2021	23.1	U	23.1	U	23.1	U	69.3	--	0.000224	U	0.00108	U	0.000363	U	0.001070	U	8.09	J
Cell 19	Vadose	Cell19-Square27-S-3-4-211214	12/14/2021	22.5	U	22.5	U	22.5	U	67.5	--	0.000222	U	0.00116	J	0.000360	U	0.00106	U	14.4	
Cell 19	Vadose	Cell19-Square83-S-3-4-211213	12/13/2021	23.5	U	23.5	U	23.5	U	70.5	--	0.000231	U	0.00112	U	0.000375	U	0.00110	U	6.37	J
Cell 19	Vadose	Cell19-Square128-S-3-4-211214	12/14/2021	21.6	U	21.6	U	21.6	U	64.8	--	0.000213	U	0.00103	U	0.000345	U	0.00101	U	6.32	J
Cell 19	Vadose	Cell19-Square144-S-3-4-211213	12/13/2021	22.2	U	22.2	U	22.2	U	66.6	--	0.000218	U	0.00105	U	0.000353	U	0.00104	U	6.20	J
Cell 20	Vadose	Cell20-Square14-S-3-4-211214	12/14/2021	22.3	U	22.3	U	22.3	U	66.9	--	0.000240	J	0.00168	J	0.000356	U	0.00106	J	7.26	J
Cell 20	Vadose	Cell20-Square18-S-3-4-211214	12/14/2021	24.0	U	24.0	U	24.0	U	72.0	--	0.000237	U	0.00123	J	0.000385	U	0.00113	U	6.77	J
Cell 20	Vadose	Cell20-Square41-S-3-4-211214	12/14/2021	23.0	U	23.0	U	23.0	U	69.0	--	0.000223	U	0.00154	J	0.000362	U	0.00106	U	14.2	
Cell 20	Vadose	Cell20-Square170-S-3-4-211214	12/14/2021	22.2	U	22.2	U	22.2	U	66.6	--	0.000217	U	0.00105	U	0.000352	U	0.00103	U	6.05	J
Cell 21	Vadose	Cell21-Square18-S-3-4-211214	12/14/2021	22.2	U	22.2	U	22.2	U	66.6	--	0.000219	U	0.00119	J	0.000355	U	0.00104	U	8.13	J
Cell 21	Vadose	Cell21-Square37-S-3-4-211214	12/14/2021	31.3	J	22.5	U	22.5	U	76.3	--	0.000220	U	0.00106	U	0.000358	U	0.00105	U	7.40	J
Cell 21	Vadose	Cell21-Square90-S-3-4-211214	12/14/2021	23.2	U	23.2	U	23.2	U	69.6	--	0.000226	U	0.00109	U	0.000366	U	0.00107	U	5.44	J
Cell 21	Vadose	Cell21-Square117-S-3-4-211214	12/14/2021	22.4	U	22.4	U	22.4	U	67.2	--	0.000219	U	0.00111	J	0.000356	U	0.00104	U	8.18	J
Cell 25	Vadose	Cell25-Square33-S-3-4-211214	12/14/2021	22.9	U	22.9	U	22.9	U	68.7	--	0.000223	U	0.00108	U	0.000361	U	0.00106	U	13.7	
Cell 25	Vadose	Cell25-Square70-S-3-4-211214	12/14/2021	23.3	U	23.3	U	23.3	U	69.9	--	0.000229	U	0.00110	U	0.000371	U	0.00109	U	8.15	J
Cell 25	Vadose	Cell25-Square176-S-3-4-211214	12/14/2021	22.8	U	22.8	U	22.8	U	68.4	--	0.000222	U	0.00107	U	0.000360	U	0.00106	U	5.31	J
Cell 25	Vadose	Cell25-Square190-S-3-4-211214	12/14/2021	23.0	U	23.0	U	23.0	U	69.0	--	0.000225	U	0.00109	U	0.000364	U	0.00107	U	4.24	J
Cell 26	Vadose	Cell26-Square8-S-3-4-211215	12/15/2021	28.2	U	28.2	U	28.2	U	84.6	--	0.00278	U	0.00134	U	0.000451	U	0.00132	U	5.64	J
Cell 26	Vadose	Cell26-Square74-S-3-4-211215	12/15/2021	27.0	U	27.0	U	27.0	U	81.0	--	0.000263	U	0.00127	U	0.000427	U	0.00125	U	7.17	J
Cell 26	Vadose	Cell26-Square183-S-3-4-211215	12/15/2021	23.1	U	23.1	U	23.1	U	69.3	--	0.000231	U	0.00111	U	0.000374	U	0.00110	U	7.71	J
Cell 26	Vadose	Cell26-Square210-S-3-4-211215	12/15/2021	23.4	U	23.4	U	23.4	U	70.2	--	0.000228	U	0.00110	U	0.000370	U	0.00109	U	5.20	J

Notes:

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

1. Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.

2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration for TPH, BTEX, and chloride. Background soil concentrations 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 5
June 2021 Treatment Zone Soil Analytical Results
2021 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

Constituent Method Units				DRO 8015B mg/kg		GRO 8015B mg/kg		ORO 8015B mg/kg		TPH ^a 8015B mg/kg		Chloride 300.0 mg/kg	
				500 mg/kg				--		2,500 mg/kg		1,000 mg/kg	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Treatment	Cell17-Treatment-S-0.5-210615	06/15/2021	21.1	U	21.1	U	21.1	U	63.3	--	44.1	
Cell 18	Treatment	Cell18-Treatment-S-0.5-210615	06/15/2021	20.9	U	20.9	U	20.9	U	62.7	--	5.74	J
Cell 19	Treatment	Cell19-Treatment-S-0.5-210615	06/15/2021	21.0	U	21.0	U	21.0	U	63.0	--	6.22	J
Cell 20	Treatment	Cell20-Treatment-S-0.5-210615	06/15/2021	21.1	U	21.1	U	21.1	U	63.3	--	10.3	
Cell 21	Treatment	Cell21-Treatment-S-0.5-210615	06/15/2021	23.6	J	20.9	U	20.9	U	65.4	--	8.07	J
Cell 25	Treatment	Cell25-Treatment-S-0.5-210615	06/15/2021	21.0	U	21.0	U	21.0	U	63.0	--	7.58	J
Cell 26	Treatment	Cell26-Treatment-S-0.5-210615	06/15/2021	21.1	U	21.1	U	21.1	U	63.3	--	6.19	J

Notes:

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

1. Nondetect values are reported to the SDL specified in the laboratory reports.

2. In accordance with 19.15.36.15(F) NMAC, treatment zone analytical results are compared to the treatment zone closure performance standards.

Acronyms and Abbreviations:

-- = not applicable

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

RL = reporting limit

TPH = total petroleum hydrocarbon

Total petroleum hydrocarbons analyzed by Method 8015B NM.

Chloride analyzed by Method 300.0

Qualifiers:

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

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

Table 6
December 2021 Treatment Zone Soil Analytical Results
2021 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

Constituent Method Units				DRO 8015B mg/kg		GRO 8015B mg/kg		ORO 8015B mg/kg		TPH ^a 8015B mg/kg		Chloride 300.0 mg/kg	
				500 mg/kg				--		2,500 mg/kg		1,000 mg/kg	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Treatment	Cell17-Treatment-S-6-211216	12/16/2021	21.6	U	21.6	U	21.6	U	64.8		12.8	
Cell 18	Treatment	Cell18-Treatment-S-6-211216	12/16/2021	21.7	U	21.7	U	21.7	U	65.1		5.33	J
Cell 19	Treatment	Cell19-Treatment-S-6-211216	12/16/2021	22.0	J	21.4	U	21.4	U	64.2		6.90	J
Cell 20	Treatment	Cell20-Treatment-S-6-211216	12/16/2021	27.2	U	27.2	U	27.2	U	81.6		7.66	J
Cell 21	Treatment	Cell21-Treatment-S-3-4-211215	12/15/2021	66.3		21.7	U	35.2	J	123.2		5.95	J
Cell 25	Treatment	Cell25-Treatment-S-3-4-211215	12/15/2021	21.4	U	21.4	U	21.4	U	64.2		6.33	J
Cell 26	Treatment	Cell26-Treatment-S-3-4-211215	12/15/2021	125		21.3	U	85.4		231.7		5.35	J

Notes:

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

1. Nondetect values are reported to the SDL specified in the laboratory reports.

2. In accordance with 19.15.36.15(F) NMAC, treatment zone analytical results are compared to the treatment zone closure performance standards.

Acronyms and Abbreviations:

-- = not applicable

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

RL = reporting limit

TPH = total petroleum hydrocarbon

Total petroleum hydrocarbons analyzed by Method 8015B NM.

Chloride analyzed by Method 300.0

Qualifiers:

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

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



Table 8
October 2021 Release Response Soil Analytical Results: TPH, BTEX, and Chloride
2021 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent Method Units Background Soil Concentration				DRO 8015B mg/kg		GRO 8015B mg/kg		ORO 8015B mg/kg		TPH ^a 8015B mg/kg		Benzene 8260B mg/kg		Toluene 8260B mg/kg		Ethylbenzene 8260B mg/kg		Xylenes 8260B mg/kg		Chloride 9056A mg/kg	
				--		< 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).
- Non-detect values are reported to the SDL specified in the laboratory reports.
 - In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are 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.
 - 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 9
October 2021 Release Response Soil Analytical Results: Metals
2021 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent Method Units				Antimony 6020A mg/kg --		Arsenic 6020A mg/kg < 5.0		Barium 6020A mg/kg 45.0		Beryllium 6020A mg/kg --		Cadmium 6020A mg/kg < 2.0		Chromium 6020A mg/kg 6.1		Copper 6020A mg/kg --		Iron 6020A mg/kg --		Lead 6020A mg/kg < 5.0	
Soil Background Concentration				Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Landfarm Cell	Zone	Sample ID	Sample Date																		
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:
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
ID = identification
mg/kg = milligrams per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
RL = reporting limit
SDL = sample detection limit

Qualifiers:
b = The compound was found in the blank and sample

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

Table 9
October 2021 Release Response Soil Analytical Results: Metals
2021 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent Method Units				Manganese 6020A mg/kg		Mercury 7471A mg/kg		Uranium 6020A mg/kg		Selenium 6020A mg/kg		Silver 6020A mg/kg		Thallium 6020A mg/kg		Zinc 6020A 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:
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
ID = identification
mg/kg = milligrams per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
RL = reporting limit
SDL = sample detection limit

Qualifiers:
b = The compound was found in the blank and sample

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

Table 10
October 2021 Release Response Soil Analytical Results: VOCs
2021 Annual Report
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 Units				8260B mg/kg		8260B mg/kg		8260B mg/kg		8260B mg/kg		8260B mg/kg		8260B mg/kg		8260B 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:
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
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.

Table 10
October 2021 Release Response Soil Analytical Results: VOCs
2021 Annual Report
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 Units				8260B mg/kg		8260B mg/kg		8260B mg/kg		8260B mg/kg		8260B mg/kg		8260B mg/kg		8260B 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

- 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
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.

Table 10
October 2021 Release Response Soil Analytical Results: VOCs
2021 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent Method Units				Methylene chloride (Dichloromethane) 8260B mg/kg		Methyl-t-butyl ether 8260B mg/kg		Styrene 8260B mg/kg		Tetrachloroethene 8260B mg/kg		trans-1,2-Dichloroethene 8260B mg/kg		Trichloroethene (Trichloroethylene) 8260B mg/kg		Vinyl chloride (Chloroethene) 8260B 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:
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
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.

Table 10
October 2021 Release Response Soil Analytical Results: VOCs
2021 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				Tribromomethane		Acrolein		Acrylonitrile		Bromodichloromethane		Bromomethane (Methyl bromide)		Chloromethane (Methyl chloride)		Trichlorofluoromethane (Freon 11)	
Method Units				8260B mg/kg		8260B mg/kg		8260B mg/kg		8260B mg/kg		8260B mg/kg		8260B mg/kg		8260B 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:
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
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.

Table 10
October 2021 Release Response Soil Analytical Results: VOCs
2021 Annual Report
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 Units				8260B mg/kg		8260B mg/kg		8260B mg/kg		8260B mg/kg		8260B mg/kg		8260B 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

- 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
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.

Table 11
October 2021 Release Response Soil Analytical Results: SVOCs
2021 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				1-Methyl-naphthalene		2-Methyl-Naphthalene		Acenaphthene		Acenaphthylene		Anthracene		Atrazine		Benzo(a)anthracene	
Method Units				8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D 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

Notes:

- Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.
- 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.
- 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.
U = Analyte was not detected at or above the SDL.

Table 11
October 2021 Release Response Soil Analytical Results: SVOCs
2021 Annual Report
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 Units				8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D 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

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

Table 11
October 2021 Release Response Soil Analytical Results: SVOCs
2021 Annual Report
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 Units				8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D 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

Notes:

- Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.
- 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.
- 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.
U = Analyte was not detected at or above the SDL.

Table 11
October 2021 Release Response Soil Analytical Results: SVOCs
2021 Annual Report
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 Units				8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D 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

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

Table 11
October 2021 Release Response Soil Analytical Results: SVOCs
2021 Annual Report
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 Units				8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D 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.
U = Analyte was not detected at or above the SDL.

Table 11
October 2021 Release Response Soil Analytical Results: SVOCs
2021 Annual Report
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 Units				8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D 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

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

Table 11
October 2021 Release Response Soil Analytical Results: SVOCs
2021 Annual Report
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 Units				8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8270D mg/kg		8260B 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

Notes:

- Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.
- 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.
- 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.
U = Analyte was not detected at or above the SDL.

Table 12
October 2021 Release Response Soil Analytical Results: PCBs
2021 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent Method Units				PCB-1016 8082 mg/kg		PCB-1221 8082 mg/kg		PCB-1232 8082 mg/kg		PCB-1242 8082 mg/kg		PCB-1248 8082 mg/kg		PCB-1254 8082 mg/kg		PCB-1260 8082 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.

Table 13
October 2021 Release Response Soil Analytical Results: Other Constituents
2021 Annual Report
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 Units				SW9056A mg/kg		SW9056A mg/kg		SW9056A mg/kg		SW9056A mg/kg		SW9045 SU		Moisture %		Moisture %		9012A mg/kg		SW8270 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:
- Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.
 - 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.
 - 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.

Table 13
October 2021 Release Response Soil Analytical Results: Other Constituents
2021 Annual Report
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 Units		SM2540C mg/L		8330B mg/kg		8330B mg/kg		8330B mg/kg		EPA 6860 mg/kg		E537-LL 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:
- Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.
 - 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.
 - 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.

Table 14
October 2021 Release Response Soil Analytical Results: Radium
2021 Annual Report
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		GA-01-R - Radium-226 & Other		GA-01-R - Radium-226 & Other	
Units				Gamma Emitters (GS)		Gamma Emitters (GS)		Gamma Emitters (GS)	
				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.

Table 15
October 2021 Release Response Soil Analytical Results: Pesticides
2021 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				Aldrin 8081B mg/kg		Chlordane Gamma Technical Mixture 8081B mg/kg		4,4-DDT 8081B mg/kg		Dieldrin 8081B mg/kg		Endosulfan 8081B mg/kg		Endosulfan II 8081B mg/kg		Endosulfan I 8081B mg/kg	
Method Units																	
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:
- Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.
 - 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.
 - 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.

Table 15
October 2021 Release Response Soil Analytical Results: Pesticides
2021 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				Endrin 8081B mg/kg		Heptachlor 8081B mg/kg		alpha BHC (Hexachlorocyclohexane) 8081B mg/kg		beta BHC (Hexachlorocyclohexane) 8081B mg/kg		delta BHC (Hexachlorocyclohexane) 8081B mg/kg		gamma BHC (Lindane) (Hexachlorocyclohexane) 8081B mg/kg	
Method Units															
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.

Table 15
October 2021 Release Response Soil Analytical Results: Pesticides
2021 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				Toxaphene 8081B mg/kg		Prometon 8270D mg/kg		Hexachlorocyclopentadiene 8270D mg/kg	
Method Units									
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:
- Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.
 - 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.
 - 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

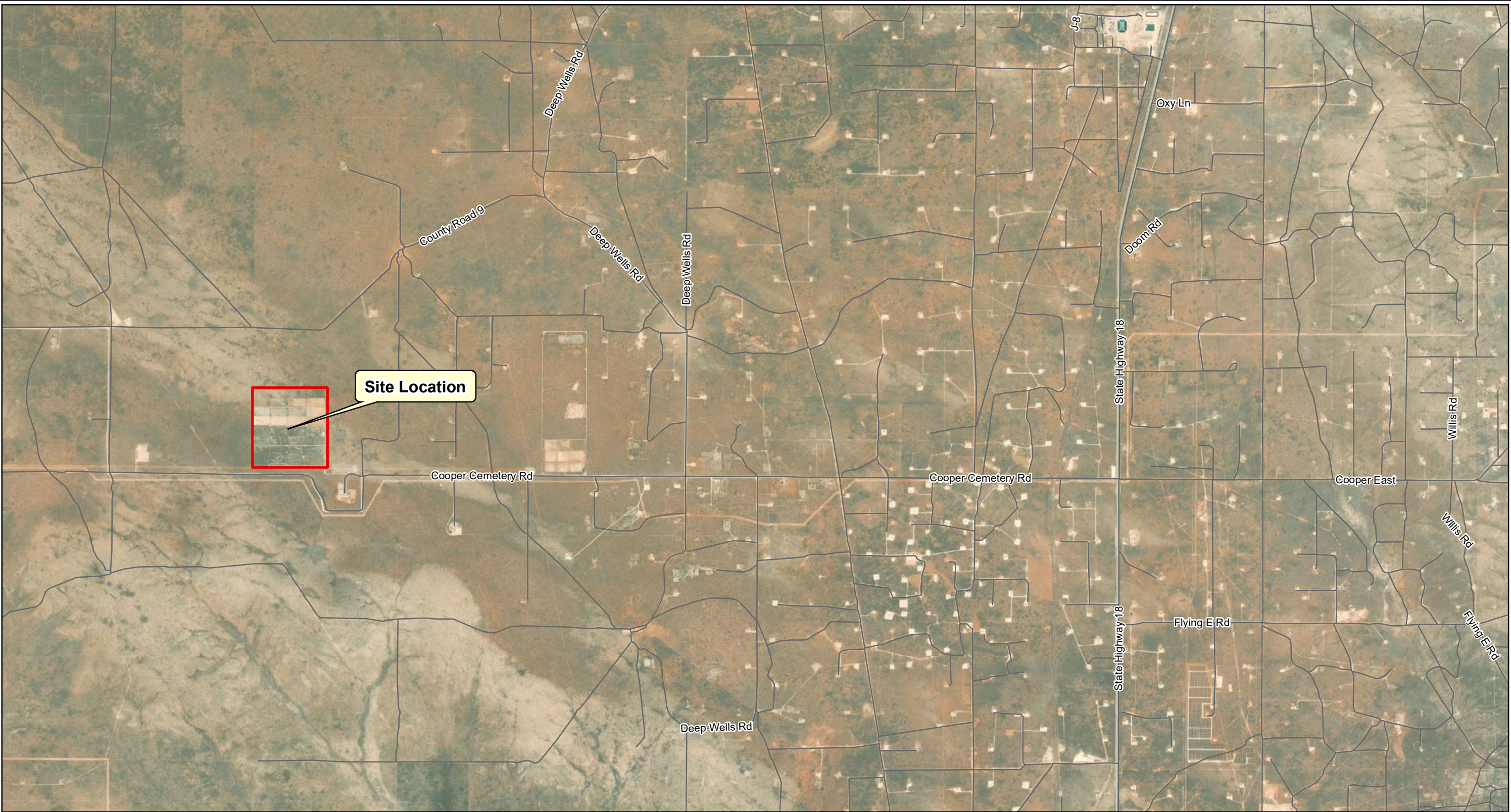
Qualifiers:

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.

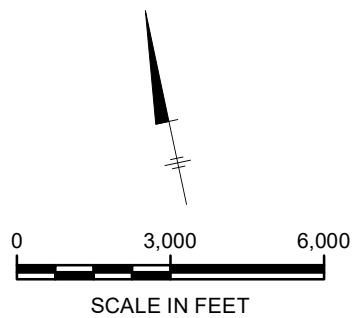
Figures

PATH: T:\ENV\CHEVRON_JAL-LANDFARM\GIS\MXD\FIGURE-1_JAL LANDFARM_2018.MXD SAVED: 3/11/2022 BY: ADI01180

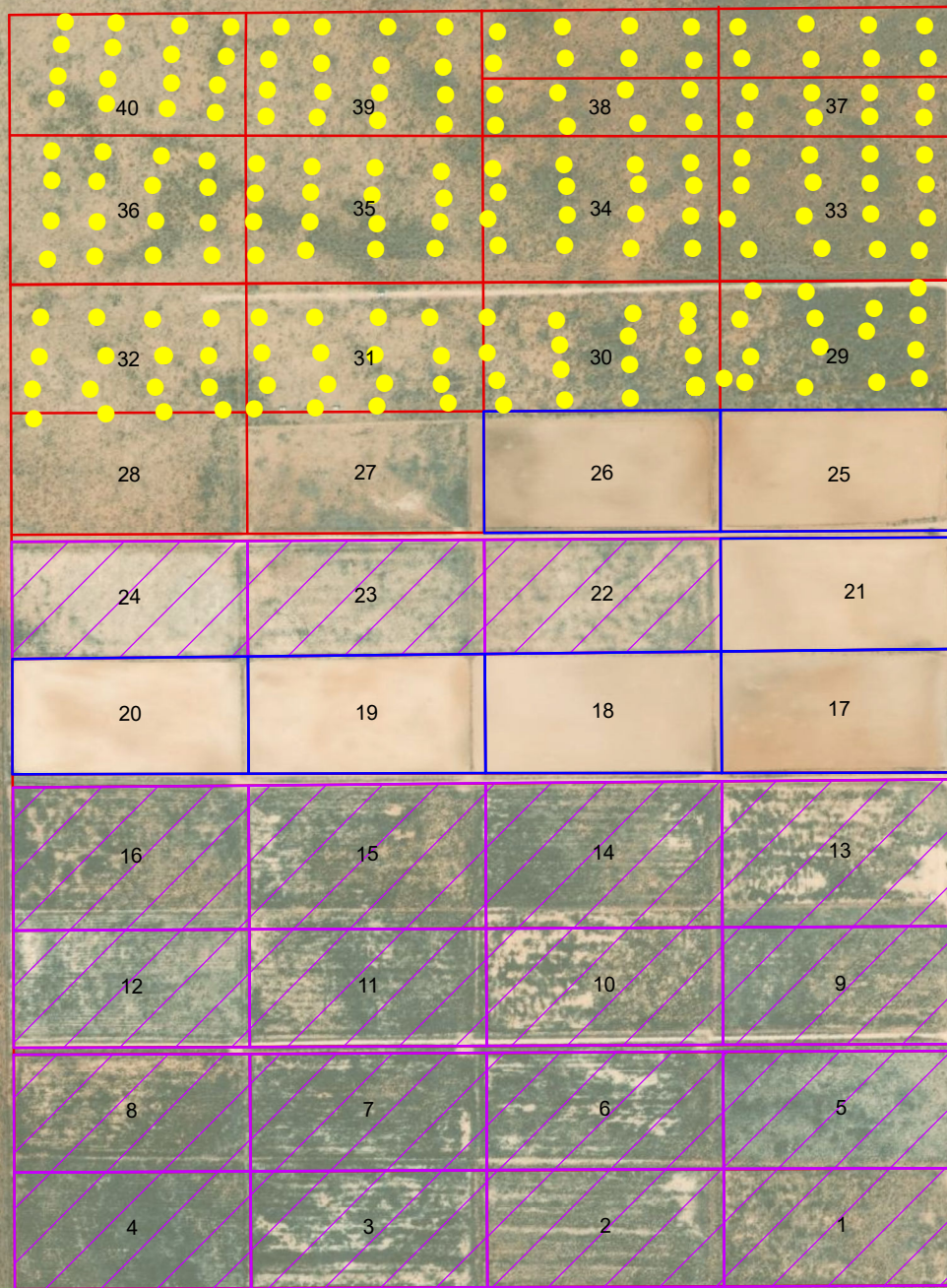


LEGEND

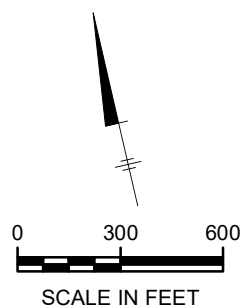
 Landfarm Boundary



CHEVRON ENVIRONMENTAL MANAGEMENT AND REAL ESTATE COMPANY JAL LANDFARM NM2-0012 LEA COUNTY, NEW MEXICO 2021 ANNUAL REPORT	
SITE LOCATION MAP	
 ARCADIS Design & Consultancy for natural and built assets	FIGURE 1

**LEGEND**

- Background sample location (March 2021)
- Active Landfarm Cell
- Inactive Landfarm Cell
- Developed Cell - Inactive

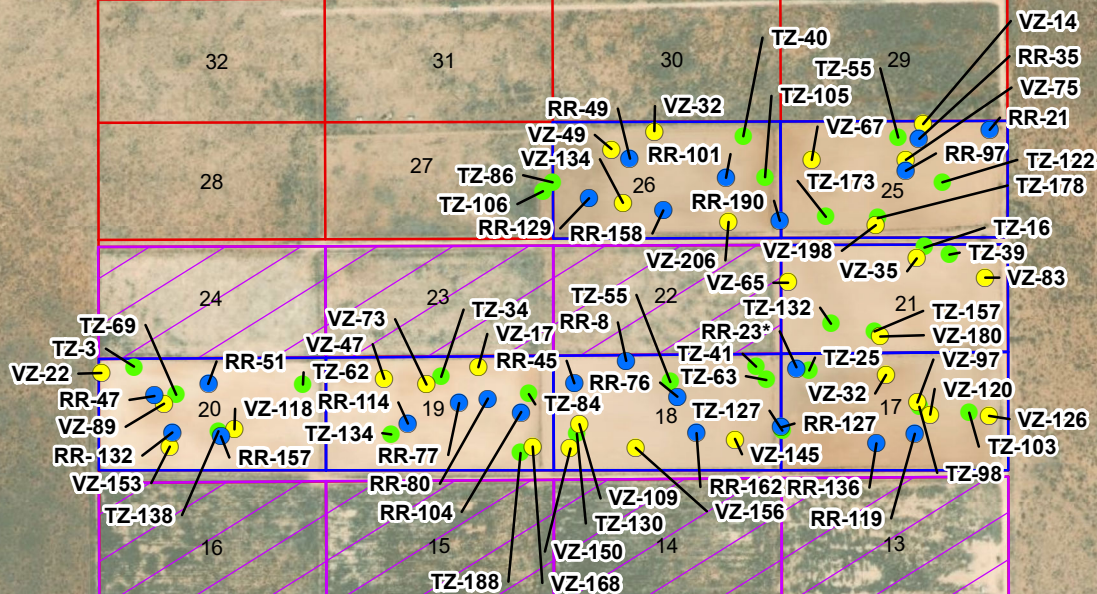


CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM NM-02-0012
LEA COUNTY, NEW MEXICO
2021 ANNUAL REPORT

BACKGROUND SAMPLING LOCATIONS

FIGURE

2



● Release Response Sample Locations (October 2021)
 ● Vadose Zone Sample Locations (June 2021)
 ● Treatment Zone Sample Locations (June 2021)
 * The coordinates were inadvertently not collected.
 The sample location is approximate.

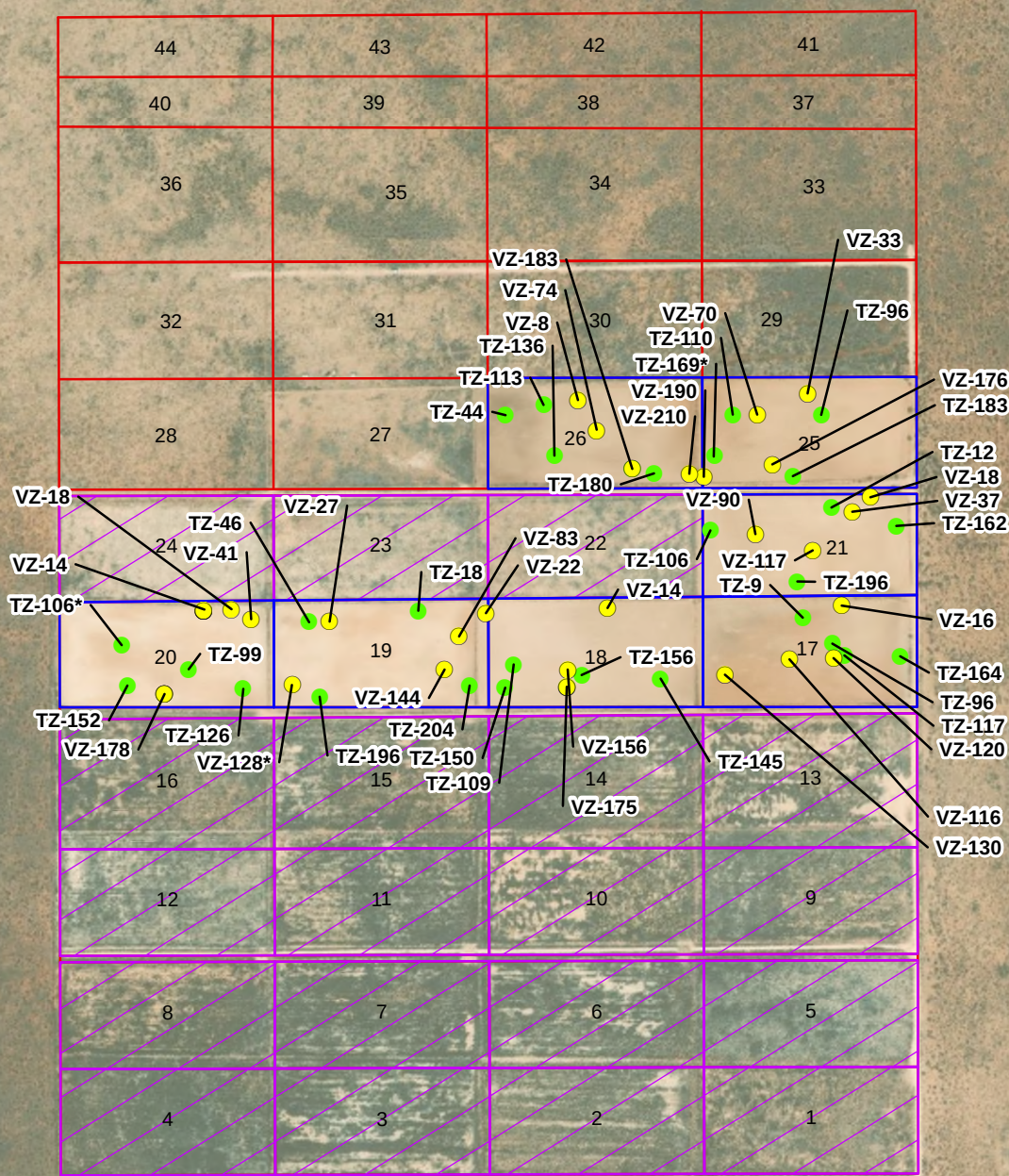
□ Active Landfarm Cell
 □ Inactive Landfarm Cell
 □ Developed Cell - Inactive

0 560
 SCALE IN FEET

JUNE 2021 AND RELEASE RESPONSE SAMPLE LOCATIONS

FIGURE

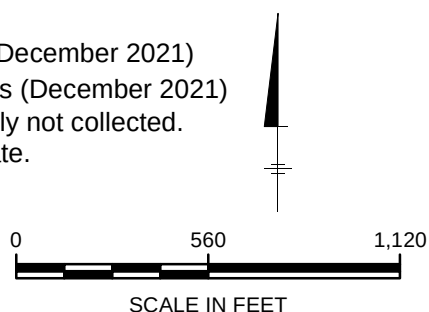
3



LEGEND

- Vadose Zone Sample Locations (December 2021)
- Treatment Zone Sample Locations (December 2021)
- * The coordinates were inadvertently not collected.
The sample location is approximate.

-  Active Landfarm Cell
-  Inactive Landfarm Cell
-  Developed Cell - Inactive



CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM NM-02-0012
LEA COUNTY, NEW MEXICO
2021 ANNUAL REPORT

DECEMBER 2021 SAMPLE LOCATIONS



FIGURE

4

Appendix A

Laboratory Reports



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

A handwritten signature in black ink that reads "Sachin Kudchadkar".

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?



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

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	18
Lab Chronicle	21
Certification Summary	24
Method Summary	25
Sample Summary	26
Chain of Custody	27
Receipt Checklists	28

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

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

Eurofins Xenco, Stafford

Case Narrative

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

Job ID: 860-6149-1

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.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-6149-1

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
Oil 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
Oil 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
Oil 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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-6149-1

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
Oil 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
Oil 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
Oil 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

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: 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
Oil 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
Oil 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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-6149-1

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
Oil 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

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: 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

Eurofins Xenco, Stafford

Surrogate Summary

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

Job ID: 860-6149-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (56-150)	BFB (68-152)	DBFM (53-142)	TOL (70-130)
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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (65-130)	OTPH1 (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			

Eurofins Xenco, Stafford

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

Eurofins Xenco, Stafford

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

Eurofins Xenco, Stafford

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

Matrix: Solid

Analysis Batch: 12564

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	0.05305		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

Matrix: Solid

Analysis Batch: 12564

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	0.05263		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

Matrix: Solid

Analysis Batch: 12161

Client Sample ID: Method Blank

Prep Type: Total/NA

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
Oil 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

Eurofins Xenco, Stafford

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: 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	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			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		

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

Table 1: LCSD Data											
Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
			Added	Result	Qualifier				Limits	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	%Recovery	LCSD Qualifier	LCSD 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

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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		
						</					

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

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	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								

Eurofins Xenco, Stafford

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: 860-6149-2 MSD

Matrix: Solid

Analysis Batch: 12161

Client Sample ID: Cell18-Treatment-S-.5-210615

Prep Type: Total/NA

Prep Batch: 12120

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	106		65 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-12543/1-A

Matrix: Solid

Analysis Batch: 12515

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12543

	MB	MB								
Analyte	Result	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

Matrix: Solid

Analysis Batch: 12515

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12543

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

Lab Sample ID: LCSD 860-12543/3-A

Matrix: Solid

Analysis Batch: 12515

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12543

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

Lab Sample ID: 860-6149-1 MS

Matrix: Solid

Analysis Batch: 12515

Client Sample ID: Cell17-Treatment-S-.5-210615

Prep Type: Total/NA

Prep Batch: 12543

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

Lab Sample ID: 860-6149-1 MSD

Matrix: Solid

Analysis Batch: 12515

Client Sample ID: Cell17-Treatment-S-.5-210615

Prep Type: Total/NA

Prep Batch: 12543

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

Lab Sample ID: 860-6149-2 MS

Matrix: Solid

Analysis Batch: 12515

Client Sample ID: Cell18-Treatment-S-.5-210615

Prep Type: Total/NA

Prep Batch: 12543

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

Eurofins Xenco, Stafford

QC Sample Results

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

Job ID: 860-6149-1

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

Eurofins Xenco, Stafford

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	

Eurofins Xenco, Stafford

QC Association Summary

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

Job ID: 860-6149-1

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	

Eurofins Xenco, Stafford

Lab Chronicle

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

Job ID: 860-6149-1

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

Eurofins Xenco, Stafford

Lab Chronicle

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

Job ID: 860-6149-1

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

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	KLK	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.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-6149-1

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

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

Eurofins Xenco, Stafford

Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-6149-1

Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
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

Eurofins Xenco, Stafford

Sample Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-6149-1

Project/Site: Chevron - Jal Land Farm Soils

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	

Eurofins Xenco, Stafford

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

Chain of Custody Record

eurolins

Client Information Client: Sarah Johnson Company: ARCADIS U.S. Inc. Address: 1004 North Big Spring Suite 300 City: Midland State: TX, Zip: 79701 Phone: 303-316-6506 (Tel) Email: sarah.johnson@arcadis.com Project Name: Chevron Jal Land Farm Soils Site: JAL Landfarm		Lab Pmt: Kudchadkar Sachin G Phone: 619 8518792 E-Mail: Sachin.Kudchadkar@Eurofinet.com State of Origin: NM Carrier Tracking No(s): 860-2093-712.1 Page: 1 Job #:		Analysis Requested Temp: 2-7IR IDHOU-272 C/F: -0.1 Corrected Temp: 2.8		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 Other:															
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix (Wetwater, Sw-Grabs, Sw-Grabs, Sw-Grabs)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		300. ORGFM, Chloride		8015. GRO/PRO/RO		Total Number of Containers		Special Instructions/Note:	
Cell 117-Treatment - S-5-210615		6/15/21		0955		C		Solid		X		X		N		N		2			
Cell 118-Treatment - S-5-210615		6/15/21		1030		C		Solid		X		X		N		N		2			
Cell 119-Treatment - S-5-210615		6/15/21		1040		C		Solid		X		X		N		N		2			
Cell 120-Treatment - S-5-210615		6/15/21		1132		C		Solid		X		X		N		N		2			
Cell 121-Treatment - S-5-210615		6/15/21		1155		C		Solid		X		X		N		N		2			
Cell 125-Treatment - S-5-210615		6/15/21		1215		C		Solid		X		X		N		N		2			
Cell 126-Treatment - S-5-210615		6/15/21		1238		C		Solid		X		X		N		N		2			
Cell 120-Square 22-S-3-4-210616		6/16/21		1030		G		Solid		X		X		N		N		2			
Cell 120-Square 89-S-3-4-210616		6/16/21		1111		G		Solid		X		X		N		N		2			
Cell 120-Square 153-S-2-3-210616		6/16/21		1230		G		Solid		X		X		N		N		2			
								Solid		X		X		N		N					
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV Other (specify)																					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months																					
Special Instructions/QC Requirements:																					
Empty Kit Relinquished by:																					
Relinquished by:																					
Relinquished by:																					
Relinquished by:																					
Custody Seal No.																					
Custody Seal Intact:																					
Custody Seal No.																					

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 $\leq$ 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 $<6\text{mm}$ (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.



Environment Testing America

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

A handwritten signature in black ink that reads "Sachin Kudchadkar".

Authorized for release by:
7/1/2021 4:48:53 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



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: 860-6296-1

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	7
Surrogate Summary	17
QC Sample Results	19
QC Association Summary	25
Lab Chronicle	28
Certification Summary	32
Method Summary	33
Sample Summary	34
Chain of Custody	35
Receipt Checklists	37

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

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

Eurofins Xenco, Stafford

Case Narrative

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

Job ID: 860-6296-1

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.

Eurofins Xenco, Stafford

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.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-6296-1

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
Oil 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

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 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
Oil 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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-6296-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	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
Oil 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

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-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
Oil 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

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 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
Oil 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
Oil 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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-6296-1

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
Oil 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

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 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
Oil 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
Oil 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

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 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
Oil 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

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 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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-6296-1

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

Lab Sample ID: 860-6296-13
Matrix: Solid

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Surrogate Summary

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (56-150)	BFB (68-152)	DBFM (53-142)	TOL (70-130)
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)

Eurofins Xenco, Stafford

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)	
Lab Sample ID	Client Sample ID	1CO1 (65-130)	OTPH1 (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

Eurofins Xenco, Stafford

QC Sample Results

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

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

Eurofins Xenco, Stafford

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

Matrix: Solid

Analysis Batch: 13231

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	0.05230		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

Matrix: Solid

Analysis Batch: 13231

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	0.04995		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

Matrix: Solid

Analysis Batch: 13265

Client Sample ID: Method Blank

Prep Type: Total/NA

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

Eurofins Xenco, Stafford

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

Eurofins Xenco, Stafford

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

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

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

Lab Sample ID: MB 860-12354/1-A

Matrix: Solid

Analysis Batch: 12372

Client Sample ID: Method Blank

Prep Type: Total/NA

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
Oil 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

Eurofins Xenco, Stafford

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

Matrix: Solid

Analysis Batch: 12372

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12354

Analyte			Spike	LCS	LCS	Unit	D	%Rec.		
			Added	Result	Qualifier			%Rec		
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	
		LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	108		65 - 130							
o-Terphenyl	81		65 - 130							

Lab Sample ID: LCSD 860-12354/3-A

Matrix: Solid

Analysis Batch: 12372

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12354

			Spike	LCSD	LCSD				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	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

Lab Sample ID: 860-6296-1 MS

Matrix: Solid

Analysis Batch: 12372

Client Sample ID: Cell 19-Square47-5-3-4-210618

Prep Type: Total/NA

Prep Batch: 12354

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	Limits		
	Result	Qualifier	Added	Result	Qualifier			%Rec			
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	MS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	94		65 - 130								
o-Terphenyl	75		65 - 130								

Lab Sample ID: 860-6296-1 MSD

Matrix: Solid

Analysis Batch: 12372

Client Sample ID: Cell 19-Square47-5-3-4-210618

Prep Type: Total/NA

Prep Batch: 12354

	Sample	Sample	Spike	MSD	MSD			%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	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
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	99		65 - 130								

Eurofins Xenco, Stafford

QC Sample Results

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

Job ID: 860-6296-1

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

Lab Sample ID: 860-6296-1 MSD

Matrix: Solid

Analysis Batch: 12372

Client Sample ID: Cell 19-Square47-5-3-4-210618

Prep Type: Total/NA

Prep Batch: 12354

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	80		65 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-13086/1-A

Matrix: Solid

Analysis Batch: 13055

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13086

	MB	MB								
Analyte	Result	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

Matrix: Solid

Analysis Batch: 13055

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13086

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

Lab Sample ID: LCSD 860-13086/3-A

Matrix: Solid

Analysis Batch: 13055

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13086

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	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	

Eurofins Xenco, Stafford

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

Eurofins Xenco, Stafford

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	

Eurofins Xenco, Stafford

Lab Chronicle

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

Job ID: 860-6296-1

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

Eurofins Xenco, Stafford

Lab Chronicle

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

Job ID: 860-6296-1

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

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

Eurofins Xenco, Stafford

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

Eurofins Xenco, Stafford

Lab Chronicle

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

Job ID: 860-6296-1

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

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

Eurofins Xenco, Stafford

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

Eurofins Xenco, Stafford

Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-6296-1

Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
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

Eurofins Xenco, Stafford

Sample Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-6296-1

Project/Site: Chevron - Jal Land Farm Soils

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	

Eurofins Xenco, Stafford

Eurofins Xenco, Stafford

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

Chain of Custody Record

eurofins



Client Information Client Contact: Sarah Johnson Company: ARCADIS U.S. Inc. Address: 1004 North Big Spring Suite 300 City: Midland State, Zip: TX, 79701 Phone: 303-316-6506(Tel) Email: sarah.johnson@arcadis.com Project Name: Chevron Jal Land Farm Soils Site: Jal Landfarm		Sampler Justyn Steermann Phone: 619 851 8792 Lab PM: Kudchadkar S. E-Mail: Sachin.Kudchadkar@Eurofinset.com		GOC No: 860-2093-712.1 Page: 162 Job #: 162	
Analysis Requested Due Date Requested: TAT Requested (days): 24 Compliance Project: ☐ Yes ☒ No PO #: Purchase Order Requested WO #: Project #: 86001348 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 Other:		Preservation Codes: M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2SO4 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4.5 Z other (specify)	
Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8015-GRD/DRG/ORO 8260C BTEX 300-ORP/M, Chloride		Field Filtered Sample (Yes or No) Matrix (Water, Solid, On-water, At-Tissue, Aque) Sample Type (C=comp, G=grab) Sample Time Sample Date Preservation Code:		Total Number of Containers Special Instructions/Note:	
Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐ Deliverable Requested: I, II, III, IV Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months		Special Instructions/QC Requirements:	
Empty Kit Relinquished by: Relinquished by: Relinquished by: Relinquished by:		Date: Date/Time: 6/18/21 17:00 Date/Time: 6/18/21 17:00 Date/Time:		Method of Shipment: Date/Time: Date/Time: 6/18/21 10:09 Date/Time:	
Custody Seals Intact: ☐ Yes ☒ No Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:		Ver 01/16/2019	

Chain of Custody Record

[illegible]

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 $\leq$ 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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



Environment Testing America

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

A handwritten signature in black ink that reads "Sachin Kudchadkar".

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?



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

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	8
Surrogate Summary	17
QC Sample Results	19
QC Association Summary	29
Lab Chronicle	33
Certification Summary	37
Method Summary	38
Sample Summary	39
Chain of Custody	40
Receipt Checklists	42

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

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

Eurofins Xenco, Stafford

Case Narrative

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

Job ID: 860-6594-1

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.

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.

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-6594-1

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
Oil 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

Eurofins Xenco, Stafford

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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-6594-1

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
Oil 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

Eurofins Xenco, Stafford

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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-6594-1

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
Oil 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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-6594-1

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: 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

Eurofins Xenco, Stafford

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
Oil 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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-6594-1

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: 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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-6594-1

Client Sample ID: Cell26-Square 65-S-3-4-210622
Date Collected: 06/22/21 16:00
Date Received: 06/24/21 11:46

Lab Sample ID: 860-6594-12
Matrix: Solid

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (56-150)	BFB (68-152)	DBFM (53-142)	TOL (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-3-4-2106 22	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-3-4-2106 22	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)

Eurofins Xenco, Stafford

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)	
Lab Sample ID	Client Sample ID	1CO1 (65-130)	OTPH1 (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-3-4-2106 22	88	104
860-6594-4	Cell26-Square 206-S-3-4-210622	87	102
860-6594-5	Cell26-Square-198-S-3-4-2106 22	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			

Eurofins Xenco, Stafford

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

Matrix: Solid

Analysis Batch: 13309

Client Sample ID: Cell26-Square 49-S-3-4-210622

Prep Type: Total/NA

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
MS MS									
Surrogate	%Recovery	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

Matrix: Solid

Analysis Batch: 13310

Client Sample ID: Cell26-Square 32-S-3-4-210622

Prep Type: Total/NA

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
MS MS									
Surrogate	%Recovery	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

Matrix: Solid

Analysis Batch: 13309

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 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
MB MB									
Surrogate	%Recovery	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	

Eurofins Xenco, Stafford

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

Eurofins Xenco, Stafford

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

Eurofins Xenco, Stafford

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

Matrix: Solid

Analysis Batch: 13648

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	0.04449		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

Matrix: Solid

Analysis Batch: 13648

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	0.04413		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

Matrix: Solid

Analysis Batch: 13805

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			07/03/21 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

Eurofins Xenco, Stafford

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

Matrix: Solid

Analysis Batch: 13805

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	0.04778		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

Matrix: Solid

Analysis Batch: 13805

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	0.04931		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

Matrix: Solid

Analysis Batch: 13806

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			07/03/21 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

Eurofins Xenco, Stafford

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

Matrix: Solid

Analysis Batch: 13806

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	0.04556		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	%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

Matrix: Solid

Analysis Batch: 13806

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	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	%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

Matrix: Solid

Analysis Batch: 13805

Client Sample ID: Cell26-Square 35-S-3-4-210622

Prep Type: Total/NA

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	%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

Eurofins Xenco, Stafford

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

Matrix: Solid

Analysis Batch: 13881

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			07/06/21 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

Matrix: Solid

Analysis Batch: 13881

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	0.04976		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

Matrix: Solid

Analysis Batch: 13881

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	0.05691		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

Eurofins Xenco, Stafford

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

Matrix: Solid

Analysis Batch: 13881

Client Sample ID: Cell26-Square 65-S-3-4-210622

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 13587

Client Sample ID: Method Blank

Prep Type: Total/NA

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
Oil 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

Matrix: Solid

Analysis Batch: 13587

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Eurofins Xenco, Stafford

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

Matrix: Solid

Analysis Batch: 13587

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 13587

Client Sample ID: Cell26-Square 49-S-3-4-210622

Prep Type: Total/NA

Prep Batch: 13463

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	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

Matrix: Solid

Analysis Batch: 13587

Client Sample ID: Cell26-Square 49-S-3-4-210622

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 13629

Client Sample ID: Method Blank

Prep Type: Total/NA

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

Eurofins Xenco, Stafford

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

Matrix: Solid

Analysis Batch: 13629

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 13629

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 13629

Client Sample ID: Cell26-Square 49-S-3-4-210622

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 13629

Client Sample ID: Cell26-Square 49-S-3-4-210622

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 13629

Client Sample ID: Cell26-Square 32-S-3-4-210622

Prep Type: Total/NA

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

Matrix: Solid

Analysis Batch: 13629

Client Sample ID: Cell26-Square 32-S-3-4-210622

Prep Type: Total/NA

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

Eurofins Xenco, Stafford

QC Association Summary

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

Job ID: 860-6594-1

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

Eurofins Xenco, Stafford

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	

Eurofins Xenco, Stafford

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	

Eurofins Xenco, Stafford

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	

Eurofins Xenco, Stafford

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

Eurofins Xenco, Stafford

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

Eurofins Xenco, Stafford

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

Eurofins Xenco, Stafford

Lab Chronicle

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

Job ID: 860-6594-1

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

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

Eurofins Xenco, Stafford

Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-6594-1

Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
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

Eurofins Xenco, Stafford

Sample Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-6594-1

Project/Site: Chevron - Jal Land Farm Soils

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	

Eurofins Xenco, Stafford

Eurofins Xenco, Stafford

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

Chain of Custody Record



IMO
ICC

Client Information		Lab PM: Kudchadkar Sachin G		Carrier Tracking No(s):		COC No: 860-2093-712.1	
Client Contact: Sarah Johnson		Phone: 432 246 9547		E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: 1 of 2	
Company: ARCADIS U.S. Inc.		Address: 1004 North Big Spring Suite 300		City: Midland		State: TX 79701	
Phone: 303-316-6506(Tel)		Email: sarah.johnson@arcadis.com		Project Name: Chevron Jal Land Farm Soils		Site: Jal Land Farm 2020	
Due Date Requested: 5/20		TAT Requested (days): 5/20		Compliance Project: ☐ Yes ☒ No		Purchase Order Requested: 86001348	
PO #: 303-316-6506(Tel)		WO #:		Project #:		SSOW#:	
Sample Identification		Sample Date		Sample Time		Sample Type (G=grab, B=bulk, S=sediment, L=liquid, G=gas, O=other)	
Cell 126-Square 49 534 210622		6-22-21		1030		Solid	
Cell 126-Square 32 534 210622		6-22-21		1110		Solid	
Cell 126-Square 13 534 210622		6-22-21		1130		Solid	
Cell 126-Square 20 534 210622		6-22-21		1150		Solid	
Cell 125-Square 148 534 210622		6-22-21		1220		Solid	
Cell 125-Square 75 534 210622		6-22-21		1250		Solid	
Cell 125-Square 153 4-2 0622		6-22-21		1310		Solid	
Cell 125-Square 67 5-3-4 210622		6-22-21		1330		Solid	
Cell 121-Square 180 5-3-4 210622		6-22-21		1350		Solid	
Cell 121-Square 85 5-3-4 210622		6-22-21		1420		Solid	
Cell 121-Square 35 5-3-4 210622		6-22-21		1450		Solid	
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months		Special Instructions/Note:	
Deliverable Requested: I, II, III, IV Other (specify)		Empty Kit Relinquished by: <i>[Signature]</i>		Date: 6/24/21		Method of Shipment: _____	
Relinquished by: <i>[Signature]</i>		Date/Time: 6/24/21		Received by: <i>[Signature]</i>		Date/Time: 6/24/21	
Relinquished by: <i>[Signature]</i>		Date/Time: 6/24/21		Received by: <i>[Signature]</i>		Date/Time: 6/24/21	
Relinquished by: <i>[Signature]</i>		Date/Time: 6/24/21		Received by: <i>[Signature]</i>		Date/Time: 6/24/21	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No. _____		Cooler Temperature(s) °C and Other Remarks: _____		Company: EX	

Ver 01/16/2019

Chain of Custody Record

 eurofins

— 2 —
 1915

Client Information			Lab PM:		Carrier Tracking No(s):		COC No:	
Client Contact: Sarah Johnson			Kudchadkar Sachin G		860-2093-712.1		860-2093-712.1	
Company:			E-Mail: Sachin.Kudchadkar@Eurofinset.com		State of Origin: NM		Page: 2 of 2	
Address: 1004 North Big Spring Suite 300 City: Midland State, Zip: TX, 79701			Phone: 303-316-6506(Tel)		Job #:		Page:	
Due Date Requested:			TAT Requested (days):		Compliance Project: ☐ Yes ☒ No		Preservation Codes:	
PO #:			Purchase Order Requested		WO #:		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 Other:	
Project #:			Project Name:		SSOW#:		M Hexane N None P Na2O4S Q Na2SO3 R Na2SO4 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Z other (specify)	
Site:			Sample Date		Sample Time		Total Number of Containers	
Sample Identification			Sample Type (C=Comp, G=grab)		Matrix (Water, Soil, Oil, etc.)		Special Instructions/Note:	
61121-square 65 S 3-4 710022			6		Solid		Loc 860 6594	
Possible Hazard Identification			Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐		Deliverable Requested: I, II, III, IV Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Empty Kit Relinquished by:			Date:		Time:		Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Relinquished by:			Date:		Time:		Special Instructions/QC Requirements.	
Relinquished by:			Date:		Time:		Method of Shipment:	
Relinquished by:			Date:		Time:		Received by:	
Relinquished by:			Date:		Time:		Received by:	
Relinquished by:			Date:		Time:		Received by:	
Custody Seal No.			Custody Seal No.		Custody Seal No.		Custody Seal No.	

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 $\leq$ 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 $<6\text{mm}$ (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.



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

A handwritten signature in black ink that reads "Sachin Kudchadkar".

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?



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

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	5
Detection Summary	7
Client Sample Results	11
Surrogate Summary	46
QC Sample Results	50
QC Association Summary	77
Lab Chronicle	88
Certification Summary	97
Method Summary	100
Sample Summary	102
Chain of Custody	103
Receipt Checklists	108

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

Definitions/Glossary

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

Job ID: 860-13162-1

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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Eurofins Xenco

Definitions/Glossary

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

Job ID: 860-13162-1

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.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-13162-1

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.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-13162-1

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 160-530649 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 were made for this report: Inferred from Reported to Analyte Th-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.

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

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.

Job ID: 860-13162-1

Project/Site: Chevron - Jal Land Farm Soils

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.

Eurofins Xenco

Detection Summary

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

Job ID: 860-13162-1

Client Sample ID: Cell19-77-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.

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: Cell20-157-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: 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

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: Cell20-157-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

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

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: Cell20-157-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: 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-Chlordane (technical)	0.473	U	3.00	0.473	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Hexachlorocyclohexane, delta-Dieldrin	23.9	U	82.9	23.9	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Endosulfan I	0.833	U	3.00	0.833	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Endosulfan II	0.169	U	3.00	0.169	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Endosulfan sulfate	0.202	U	3.00	0.202	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Endrin	0.372	U	3.00	0.372	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Endrin aldehyde	0.276	U	3.00	0.276	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Hexachlorocyclohexane, gamma-Heptachlor	0.291	U	3.00	0.291	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Heptachlor epoxide	0.247	U *	3.00	0.247	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
Toxaphene	0.438	U	3.00	0.438	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
	0.562	U	3.00	0.562	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
	0.245	U	3.00	0.245	ug/Kg		10/11/21 10:23	10/14/21 12:45	1
	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

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: Cell20-157-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: 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

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: Cell20-157-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

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: Cell20-132-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: 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

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: Cell20-132-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

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

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: Cell20-132-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: 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

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: Cell20-132-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: 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

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: Cell20-132-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

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

Lab Sample ID: 860-13162-3

Date Collected: 10/05/21 11:05

Matrix: Solid

Date Received: 10/06/21 11:03

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

Lab Sample ID: 860-13162-3

Date Collected: 10/05/21 11:05

Matrix: Solid

Date Received: 10/06/21 11:03

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

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

Lab Sample ID: 860-13162-3

Date Collected: 10/05/21 11:05

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	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

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

Lab Sample ID: 860-13162-3

Date Collected: 10/05/21 11:05

Matrix: Solid

Date Received: 10/06/21 11:03

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

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

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

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: Cell20-51-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: 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

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: Cell20-51-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

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

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: Cell20-51-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

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: Cell20-51-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: 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

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: Cell20-51-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

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: 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: 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

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: 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

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

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: 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: 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

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: 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: 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

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: 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

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: 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: 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

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: 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

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

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: 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: 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

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: 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: 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

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: 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

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: 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: 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

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: 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

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

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: 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: 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

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: 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: 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

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: 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

Eurofins Xenco

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (65-152)	TOL (65-139)	DBFM (50-136)	BFB (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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TPP (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			

Eurofins Xenco

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)

Lab Sample ID	Client Sample ID	TPP (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)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (30-115)	2FP (25-121)	TBP (19-122)	NBZ (23-129)	PHL (24-113)	TPHd14 (18-137)
860-13162-1	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)

Lab Sample ID	Client Sample ID	OTPH1 (65-130)	1CO1 (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

Eurofins Xenco

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)			

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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						

Eurofins Xenco

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								

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Client Sample ID: Cell20-157-S-3-4-211005

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 25955

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

Eurofins Xenco

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

Eurofins Xenco

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				

Eurofins Xenco

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						
<i>o</i> -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	RPD	RPD Limit
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								
<i>o</i> -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								
<i>o</i> -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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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	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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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. (2 σ +/-)	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. (2 σ +/-)	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.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-13162-1

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-13162-1

Project/Site: Chevron - Jal Land Farm Soils

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

Eurofins Xenco

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-13162-1

Project/Site: Chevron - Jal Land Farm Soils

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

Eurofins Xenco

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	

Eurofins Xenco

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-13162-1

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
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

Eurofins Xenco

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

Eurofins Xenco

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	

Eurofins Xenco

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-13162-1

Project/Site: Chevron - Jal Land Farm Soils

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

Eurofins Xenco

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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**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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Accreditation/Certification Summary

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

Job ID: 860-13162-1

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: 860-13162-1

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.

Eurofins Xenco

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.

Eurofins Xenco

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		

Eurofins Xenco

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

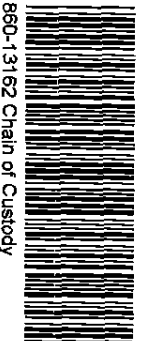
Eurofins Xenco, Stafford

Chain of Custody Record

eurofins

Environment Testing
America4147 Greenbrier Dr
Stafford, TX 77477
Phone (281) 240-4200

Client Information

Client Contact:
Allison SchaefferSampler:
Phone: 432-288-0875
E-Mail: Sachin.Kuchadkar@eurofins.comLab Pmt:
Kuchadkar Sachin
Sachin.Kuchadkar@eurofins.comIC No:
04906-1683.1
ge: 10461767716

Job #:

Company:
ARCADIS U.S. Inc.

Due Date Requested:

PWSID:

Analysis Requested

Preservation Codes:

Address:
630 Plaza Drive Suite 100City:
Highlands RanchState, Zip:
CO, 80129-2377Compliance Project: ☐ Yes ☒ No

Purchase Order Requested

PO #:

WO #:

Project #:
86002103

SSOW#:

Phone:
303-710-7537 (Tel)Email:
Allison.Schaeffer@arcadis.comProject Name:
Chevron Jai Land Farm Soils

Site:

Field Filtered Sample (Yes or No)

GA_01_R_Ra (MOD) Radium-226/228

6860 Standard 6860 list

6930B (MOD) DOD Sublist

PFC (MOD) Custom List

6270D_AgChem (MOD) Copy Analytes

2640C Local Method

6260B (MOD) mod

6260C_SIM 1,4-Dioxane

8015MOD_NM (MOD) Copy Analytes

6026A, 7471A, 8061B, 8062A, 8270D, 9012A, 9045D, 9066A_ORGFM_28D, 9066A_ORGFM_48H, 9066

Containers

Other

A HCL

B NaOH

C Zn Acetate

D Nitric Acid

E NaHSO4

F MeOH

G Acetic Acid

H Acetic Acid

I Ice

J DI Water

K EDTA

L EDTA

M Hexane

N None

O AsH2O2

P Na2OAS

Q Na2SO3

R Na2S2O3

S H2SO4

T TSP Decontaminant

U Acetone

V MCAA

W pH 4.5

Z other (specify)

Temp. 51 IR ID: HOU-272

C/F +0.2

Corrected Temp: 5.3

Temp: 01 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

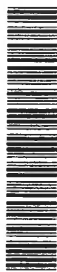
Eurofins Xenco, Stafford

4147 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record



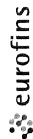
**Environment Testing
America**



Client Information (Sub Contract Lab)				Lab PM: Kudchadkar, Sachin G		Carrier Tracking No(s): 860-6270.1				
Client Contact: Shipping/Receiving				E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page Page 1 of 1				
Company: TesAmerica Laboratories, Inc.				Accreditations Required (See note) NELAP - Texas		Job # 860-13162-1				
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045				Due Date Requested: 10/25/2021		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 Other:				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)				TAT Requested (days):		Analysis Requested				
Email:				PO #:		Total Number of containers				
Project Name: Chevron - Jal Land Farm Soils				WO #:		Special Instructions/Note:				
Site:				Project #: 86002103						
				SSOW#:						
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (If water, solid, or wastewater, BT=Tissue, AA=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_Radry_Grind (MOD) Radium-226/228
Cell20-157-5-3-4-211005 (860-13162-1)	10/5/21	09:50 Central	Solid							
Cell20-132-5-3-4-211005 (860-13162-2)	10/5/21	10:22 Central	Solid							
Cell20-47-5-3-4-211005 (860-13162-3)	10/5/21	11:05 Central	Solid							
Cell20-51-5-3-4-211005 (860-13162-4)	10/5/21	11:25 Central	Solid							
Cell19-104-5-3-4-211005 (860-13162-5)	10/5/21	12:57 Central	Solid							
Cell19-80-5-3-4-211005 (860-13162-6)	10/5/21	13:17 Central	Solid							
Cell19-77-5-3-4-211005 (860-13162-7)	10/5/21	13:53 Central	Solid							
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/test/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 Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2										
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements:										
Empty Kit Relinquished by: Relinquished by: <i>[Signature]</i> FEDEX Relinquished by: Relinquished by:				Date: 10/6/21 Date/Time: 10/6/21 Date/Time:				Method of Shipment: FEDEX Received by: Received by: <i>[Signature]</i> Date/Time: 10/6/21 Date/Time:		
Custody Seals Intact: ☐ Yes ☐ No				Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:		

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

Chain of Custody Record



Environment Testing
America



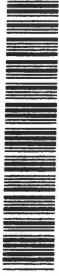
Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:	
Client Contact: Shipping/Receiving		Phone:	Kudchadkar, Sachin G		860-6268.1	
Company: TestAmerica Laboratories, Inc.		E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas		Page: Page 1 of 1	
Address: 4955 Yarrow Street, City: Arvada State, Zip: CO, 80002 Phone: 303-736-0100(Tel) 303-431-7171(Fax) Email:		Accreditations Required (See note): NELAP - Texas				
Project Name: Chevron - Jal Land Farm Soils Site:		Job #: 860-13162-1				
Due Date Requested: 10/22/2021 TAT Requested (days):		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Na2SO3 H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:				
PO #:		Analysis Requested				
WO #:		Total Number of containers				
Project #: 86002103		Field Filtered Sample (Yes or No)				
SSOW#:		Perform MS/MSD (Yes or No)				
		6660/6860 Prep Standard 6860 list				
		PFC/PFOA/Leach (MOD) Custom List				
		8330B/ISM_DP_SS (MOD) DOD Sublist				
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Special Instructions/Note:
Cell20-157-5-3-4-211005 (860-13162-1)	10/5/21	09:50 Central			Solid	ism subsampling is not required.
Cell20-132-5-3-4-211005 (860-13162-2)	10/5/21	10:22 Central			Solid	ism subsampling is not required.
Cell20-47-5-3-4-211005 (860-13162-3)	10/5/21	11:05 Central			Solid	ism subsampling is not required.
Cell20-51-5-3-4-211005 (860-13162-4)	10/5/21	11:25 Central			Solid	ism subsampling is not required.
Cell19-104-5-3-4-211005 (860-13162-5)	10/5/21	12:57 Central			Solid	ism subsampling is not required.
Cell19-80-5-3-4-211005 (860-13162-6)	10/5/21	13:17 Central			Solid	ism subsampling is not required.
Cell19-77-5-3-4-211005 (860-13162-7)	10/5/21	13:53 Central			Solid	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 compliance to Eurofins Xenco LLC.						
Possible Hazard Identification						
Unconfirmed						
Deliverable Requested: I, II, III, IV, Other (specify)						
Primary Deliverable Rank: 2						
Empty Kit Relinquished by:						
Date/Time:						
Relinquished by:						
Date/Time:						
Relinquished by:						
Date/Time:						
Relinquished by:						
Date/Time:						
Custody Seals Intact: Δ Yes Δ No						
Custody Seal No.:						
Cooler Temperature(s) °C and Other Remarks: 4-0, 2-3 DRH 11.1.1.1						
Date/Time:						
Received by:						
Date/Time:						
Received by:						
Date/Time:						
Received by:						
Date/Time:						
Method of Shipment:						
Special Instructions/QC Requirements:						
Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months						
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						

Ver: 06/08/2021

Eurofins Xenco, Stafford

4147 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

Environment Testing
America

Client Information (Sub Contract Lab)		Lab PM: Kutchadkar, Sachin G		Carrier Tracking No(s): 860-6271-1	
Client Contact: Shipping/Receiving		Phone:		State of Origin: Texas	
Company: TestAmerica Laboratories, Inc.		E-Mail: Sachin.Kutchadkar@Eurofinset.com		Page: Page 1 of 1	
Address: 3355 McLemore Drive, Pensacola, FL 32514		Due Date Requested: 10/25/2021		Job #: 860-13162-1	
Phone: 850-474-1001(Tel) 850-478-2671(Fax)		TAT Requested (days):		Preservation Codes:	
Email:		PO #:		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 - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Project Name: Chevron - Jal Land Farm Soils		Project #: 86002103		Other:	
Site:		SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_AgChem/3546 (MOD) Copy Analyses	Analysis Requested	Total Number of Containers	Special Instructions/Note:
Cell20-157-5-3-4-211005 (860-13162-1)	10/5/21	09:50 Central		Solid	X	X	X		1	
Cell20-132-5-3-4-211005 (860-13162-2)	10/5/21	10:22 Central		Solid	X	X	X		1	
Cell20-47-5-3-4-211005 (860-13162-3)	10/5/21	11:05 Central		Solid	X	X	X		1	
Cell20-51-5-3-4-211005 (860-13162-4)	10/5/21	11:25 Central		Solid	X	X	X		1	
Cell19-104-5-3-4-211005 (860-13162-5)	10/5/21	12:57 Central		Solid	X	X	X		1	
Cell19-80-5-3-4-211005 (860-13162-6)	10/5/21	13:17 Central		Solid	X	X	X		1	
Cell19-77-5-3-4-211005 (860-13162-7)	10/5/21	13:53 Central		Solid	X	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/test/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
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2

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

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

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: ☐ Yes ☐ No ☐ No
Cooler Temperature(s) °C and Other Remarks: 0.3°C FLX

Ver: 06/08/2021

1. The first step is to identify the problem or question that needs to be addressed. This involves understanding the context and the specific requirements of the task.

2. Next, it is important to gather relevant information and data. This can be done through research, consultation with experts, or by analyzing existing resources.

3. Once the information is gathered, the next step is to develop a plan or strategy. This involves breaking down the problem into smaller, manageable parts and determining the best approach to solve each part.

4. The fourth step is to implement the plan. This involves putting the strategy into action and monitoring progress to ensure that the goals are being met.

5. Finally, it is important to evaluate the results and make adjustments as needed. This involves reflecting on what worked well and what didn't, and using that information to improve future performance.



Environment Testing
America

Client Information (Sub Contract Lab)						Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s) 860-6269.1
Client Contact Shipping/Receiving						E-Mail: Sachin.Kudchadkar@Eurofinset.com	Page: Page 1 of 1
Company Eurofins Xenco						Accreditations Required (See note): NELAP - Texas	COC No. 860-6269.1
Address: 17733 N. Padre Island Drive,						State of Origin: Texas	Job #: 860-13162-1
City: Corpus Christi						Preservation Codes:	
State, Zip: TX, 78408						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)	
Phone: 361-289-2471(Tel) 361-289-2673(Fax)						Other:	
Email: 							
Project Name: Chevron - Jal Land Farm Soils							
Site: 							
Sample Identification - Client ID (Lab ID)							
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Q-waste/HL, BT-Tissue, A&AP)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260/6030B_Solid (MOD) mod	Total Number of containers
10/5/21	09:50 Central	Solid	Solid	X	X	2540C/TX_7Day_T	1
10/5/21	10:22 Central	Solid	Solid	X	X		1
10/5/21	11:05 Central	Solid	Solid	X	X		1
10/5/21	11:25 Central	Solid	Solid	X	X		1
10/5/21	12:57 Central	Solid	Solid	X	X		1
10/5/21	13:17 Central	Solid	Solid	X	X		1
10/5/21	13:53 Central	Solid	Solid	X	X		1
Special Instructions/Note:							
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins 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							
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) _____							
Primary Deliverable Rank: 2							
Date: _____							
Empty Kit Relinquished by: _____							
Relinquished by: _____							
Relinquished by: _____							
Relinquished by: _____							
Custody Seal Intact: ☒ Yes ☐ No							
Custody Seal No.: 0.5 CGIP-10 0.4							

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 860-13162-1

Login Number: 13162

List Number: 1

Creator: Torrez, Lisandra

List Source: Eurofins Xenco

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 860-13162-1

Login Number: 13162

List Number: 5

Creator: O'Hara, Jake F

List Source: Eurofins Denver

List Creation: 10/07/21 08:42 PM

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 860-13162-1

Login Number: 13162

List Number: 3

Creator: Avery, Kathy R

List Source: Eurofins Pensacola

List Creation: 10/07/21 05:55 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 860-13162-1

Login Number: 13162

List Number: 4

Creator: Korrinhizer, Micha L

List Source: Eurofins St. Louis

List Creation: 10/07/21 07:15 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	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 $<6\text{mm}$ (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 Number: 2

Creator: Forrester, Caitlyn D

List Source: Eurofins Xenco

List Creation: 10/07/21 11:04 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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 $<6\text{mm}$ (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.



Environment Testing America

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

A handwritten signature in black ink, reading "Sachin Kudchadkar".

Authorized for release by:
1/7/2022 11:11:53 AM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



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: 860-13347-1

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	5
Detection Summary	7
Client Sample Results	12
Surrogate Summary	62
QC Sample Results	67
QC Association Summary	89
Lab Chronicle	103
Certification Summary	116
Method Summary	119
Sample Summary	121
Chain of Custody	122
Receipt Checklists	131

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

Definitions/Glossary

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

Job ID: 860-13347-1

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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)

Eurofins Xenco

Definitions/Glossary

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

Job ID: 860-13347-1

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.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-13347-1

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.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-13347-1

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_Ra: Gamma Prep Batch 160-531365 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 were made for this report:		Inferred from	Reported to Analyte	Th-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-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. 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.

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

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.

Eurofins Xenco

Detection Summary

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 (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.

Eurofins Xenco

Detection Summary

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 (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.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-13347-1

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.

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

Lab Sample ID: 860-13347-1

Date Collected: 10/06/21 08:52

Matrix: Solid

Date Received: 10/08/21 10:21

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

Lab Sample ID: 860-13347-1

Date Collected: 10/06/21 08:52

Matrix: Solid

Date Received: 10/08/21 10:21

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

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

Lab Sample ID: 860-13347-1

Date Collected: 10/06/21 08:52

Matrix: Solid

Date Received: 10/08/21 10:21

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

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

Lab Sample ID: 860-13347-1

Date Collected: 10/06/21 08:52

Matrix: Solid

Date Received: 10/08/21 10:21

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

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

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

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: 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: 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

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: 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

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

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: 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: 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

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: 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: 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

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: 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

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: 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: 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

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: 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

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

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: 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: 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

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: 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: 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

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: 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

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: 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: 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

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: 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

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

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: 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: 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	

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: 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: 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

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: 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

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: 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: 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

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: 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

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

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: 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: 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

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: 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: 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

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: 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

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: 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: 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

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: 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

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

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: 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: 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

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: 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: 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

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: 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

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: 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: 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

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: 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

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

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: 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: 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	

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: 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: 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

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: 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

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: 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

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

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: 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

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

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: 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

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

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: 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

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

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: 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

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

Date Collected: 10/06/21 13:31

Matrix: Solid

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

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: 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: 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

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: 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

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

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: 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: 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

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: 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: 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

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: 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

Lab Sample ID: 860-13347-10

Date Collected: 10/06/21 14:13

Matrix: Solid

Date Received: 10/08/21 10:21

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

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

Lab Sample ID: 860-13347-10

Date Collected: 10/06/21 14:13

Matrix: Solid

Date Received: 10/08/21 10:21

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

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

Lab Sample ID: 860-13347-10

Date Collected: 10/06/21 14:13

Matrix: Solid

Date Received: 10/08/21 10:21

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

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

Lab Sample ID: 860-13347-10

Date Collected: 10/06/21 14:13

Matrix: Solid

Date Received: 10/08/21 10:21

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

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

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

Eurofins Xenco

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (65-152)	TOL (65-139)	DBFM (50-136)	BFB (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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TPP (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			

Eurofins Xenco

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)

Lab Sample ID	Client Sample ID	TPP (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)

Lab Sample ID	Client Sample ID	FBP (30-115)	2FP (25-121)	TBP (19-122)	NBZ (23-129)	PHL (24-113)	TPHd14 (18-137)
860-13347-1	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)

Lab Sample ID	Client Sample ID	OTPH1 (65-130)	1CO1 (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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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				

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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	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

Eurofins Xenco

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -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	MSD									
	%Recovery	Qualifier	Limits								
<i>o</i> -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	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier	Limits						
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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

	LCS	LCS	
Surrogate	%Recovery	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

	LCSD	LCSD	
Surrogate	%Recovery	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

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dinitrobenzene	106		83 - 122

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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	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	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

Eurofins Xenco

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	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	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	Limit
Phenols, Total	0.996	1.013		mg/Kg		102	90 - 110	1	20

Eurofins Xenco

QC Sample Results

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

Job ID: 860-13347-1

Method: 9066 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: 860-13347-4 MS

Matrix: Solid

Analysis Batch: 27788

Client Sample ID: Cell18-162-S-3-4-211006

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	0.0599	U	0.993	0.9630		mg/Kg		97	90 - 110

Lab Sample ID: 860-13347-4 MSD

Matrix: Solid

Analysis Batch: 27788

Client Sample ID: Cell18-162-S-3-4-211006

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	0.0599	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

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: 860-13347-4 DU

Matrix: Solid

Analysis Batch: 190117

Client Sample ID: Cell18-162-S-3-4-211006

Prep Type: 7 Day Leach

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

Matrix: Solid

Analysis Batch: 535387

Client Sample ID: Method Blank

Prep Type: Total/NA

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

Eurofins Xenco

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.

Job ID: 860-13347-1

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
860-13347-1	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	

Eurofins Xenco

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

Eurofins Xenco

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-13347-1

Project/Site: Chevron - Jal Land Farm Soils

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

Eurofins Xenco

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: 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

Eurofins Xenco

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

Eurofins Xenco

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-13347-1

Project/Site: Chevron - Jal Land Farm Soils

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	

Eurofins Xenco

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	

Eurofins Xenco

QC Association Summary

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

Job ID: 860-13347-1

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	

Eurofins Xenco

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

Eurofins Xenco

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-13347-1

Project/Site: Chevron - Jal Land Farm Soils

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	

Eurofins Xenco

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-13347-1

Project/Site: Chevron - Jal Land Farm Soils

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	

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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**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.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-13347-1

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.

Job ID: 860-13347-1

Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
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.

Eurofins Xenco

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		

Eurofins Xenco

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

1
2
3
4
5
6
7
8
9
10
11
12
13
14

15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200

201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300

301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400

401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500

501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600

601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700

701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800

801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900

901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
1000

1001
1002
1003
1004
1005
1006
1007
1008
1009
1010
1011
1012
1013
1014
1015
1016
1017
1018
1019
1020
1021
1022
1023
1024
1025
1026
1027
1028
1029
1030
1031
1032
1033
1034
1035
1036
1037
1038
1039
1040
1041
1042
1043
1044
1045
1046
1047
1048
1049
1050
1051
1052
1053
1054
1055
1056
1057
1058
1059
1060
1061
1062
1063
1064
1065
1066
1067
1068
1069
1070
1071
1072
1073
1074
1075
1076
1077
1078
1079
1080
1081
1082
1083
1084
1085
1086
1087
1088
1089
1090
1091
1092
1093
1094
1095
1096
1097
1098
1099
1100

1101
1102
1103
1104
1105
1106
1107
1108
1109
1110
1111
1112
1113
1114
1115
1116
1117
1118
1119
1120
1121
1122
1123
1124
1125
1126
1127
1128
1129
1130
1131
1132
1133
1134
1135
1136
1137
1138
1139
1140
1141
1142
1143
1144
1145
1146
1147
1148
1149
1150
1151
1152
1153
1154
1155
1156
1157
1158
1159
1160
1161
1162
1163
1164
1165
1166
1167
1168
1169
1170
1171
1172
1173
1174
1175
1176
1177
1178
1179
1180
1181
1182
1183
1184
1185
1186
1187
1188
1189
1190
1191
1192
1193
1194
1195
1196
1197
1198
1199
1200

1201
1202
1203
1204
1205
1206
1207
1208
1209
1210
1211
1212
1213
1214
1215
1216
1217
1218
1219
1220
1221
1222
1223
1224
1225
1226
1227
1228
1229
1230
1231
1232
1233
1234
1235
1236
1237
1238
1239
1240
1241
1242
1243
1244
1245
1246
1247
1248
1249
1250
1251
1252
1253
1254
1255
1256
1257
1258
1259
1260
1261
1262
1263
1264
1265
1266
1267
1268
1269
1270
1271
1272
1273
1274
1275
1276
1277
1278
1279
1280
1281
1282
1283
1284
1285
1286
1287
1288
1289
1290
1291
1292
1293
1294
1295
1296
1297
1298
1299
1300

1301
1302
1303
1304
1305
1306
1307
1308
1309
1310
1311
1312
1313
1314
1315
1316
1317
1318
1319
1320
1321
1322
1323
1324
1325
1326
1327
1328
1329
1330
1331
1332
1333
1334
1335
1336
1337
1338
1339
1340
1341
1342
1343
1344
1345
1346
1347
1348
1349
1350
1351
1352
1353
1354
1355
1356
1357
1358
1359
1360
1361
1362
1363
1364
1365
1366
1367
1368
1369
1370
1371
1372
1373
1374
1375
1376
1377
1378
1379
1380
1381
1382
1383
1384
1385
1386
1387
1388
1389
1390
1391
1392
1393
1394
1395
1396
1397
1398
1399
1400

1401
1402
1403
1404
1405
1406
1407
1408
1409
1410
1411
1412
1413
1414
1415
1416
1417
1418
1419
1420
1421
1422
1423
1424
1425
1426
1427
1428
1429
1430
1431
1432
1433
1434
1435
1436
1437
1438
1439
1440
1441
1442
1443
1444
1445
1446
1447
1448
1449
1450
1451
1452
1453
1454
1455
1456
1457
1458
1459
1460
1461
1462
1463
1464
1465
1466
1467
1468
1469
1470
1471
1472
1473
1474
1475
1476
1477
1478
1479
1480
1481
1482
1483
1484
1485
1486
1487
1488
1489
1490
1491
1492
1493
1494
1495
1496
1497
1498
1499
1500

1501
1502
1503
1504
1505
1506
1507
1508
1509
1510
1511
1512
1513
1514
1515
1516
1517
1518
1519
1520
1521
1522
1523
1524
1525
1526
1527
1528
1529
1530
1531
1532
1533
1534
1535
1536
1537
1538
1539
1540
1541
1542
1543
1544
1545
1546
1547
1548
1549
1550
1551
1552
1553
1554
1555
1556
1557
1558
1559
1560
1561
1562
1563
1564
1565
1566
1567
1568
1569
1570
1571
1572
1573
1574
1575
1576
1577
1578
1579
1580
1581
1582
1583
1584
1585
1586
1587
1588
1589
1590
1591
1592
1593
1594
1595
1596
1597
1598
1599
1600

1601
1602
1603
1604
1605
1606
1607
1608
1609
1610
1611
1612
1613
1614
1615
1616
1617
1618
1619
1620
1621
1622
1623
1624
1625
1626
1627
1628
1629
1630
1631
1632
1633
1634
1635
1636
1637
1638
1639
1640
1641
1642
1643
1644
1645
1646
1647
1648
1649
1650
1651
1652
1653
1654
1655
1656
1657
1658
1659
1660
1661
1662
1663
1664
1665
1666
1667
1668
1669
1670
1671
1672
1673
1674
1675
1676
1677
1678
1679
1680
1681
1682
1683
1684
1685
1686
1687
1688
1689
1690
1691
1692
1693
1694
1695
1696
1697
1698
1699
1700

1701
1702
1703
1704
1705
1706
1707
1708
1709
1710
1711
1712
1713
1714
1715
1716
1717
1718
1719
1720
1721
1722
1723
1724
1725
1726
1727
1728
1729
1730
1731
1732
1733
1734
1735
1736
1737
1738
1739
1740
1741
1742
1743
1744
1745
1746
1747
1748
1749
1750
1751
1752
1753
1754
1755
1756
1757
1758
1759
1760
1761
1762
1763
1764
1765
1766
1767
1768
1769
1770
1771
1772
1773
1774
1775
1776
1777
1778
1779
1780
1781
1782
1783
1784
1785
1786
1787
1788
1789
1790
1791
1792
1793
1794
1795
1796
1797
1798
1799
1800

1801
1802
1803
1804
1805
1806
1807
1808
1809
1810
1811
1812
1813
1814
1815
1816
1817
1818
1819
1820
1821
1822
1823
1824
1825
1826
1827
1828
1829
1830
1831
1832
1833
1834
1835
1836
1837
1838
1839
1840
1841
1842
1843
1844
1845
1846
1847
1848
1849
1850
1851
1852
1853
1854
1855
1856
1857
1858
1859
1860
1861
1862
1863
1864
1865
1866
1867
1868
1869
1870
1871
1872
1873
1874
1875
1876
1877
1878
1879
1880
1881
1882
1883
1884
1885
1886
1887
1888
1889
1890
1891
1892
1893
1894
1895
1896
1897
1898
1899
1900

1901
1902
1903
1904
1905
1906
1907
1908
1909
1910
1911
1912
1913
1914
1915
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973
1974
1975
1976
1977
1978
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000

2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035
2036
2037
2038
2039
2040
2041
2042
2043
2044
2045
2046
2047
2048
2049
2050
2051
2052
2053
2054
2055
2056
2057
2058
2059
2060
2061
2062
2063
2064
2065
2066
2067
2068
2069
2070
2071
2072
2073
2074
2075
2076
2077
2078
2079
2080
2081
2082
2083
2084
2085
2086
2087
2088
2089
2090
2091
2092
2093
2094
2095
2096
2097
2098
2099
2100

Eurofins Xenco, Stafford

4147 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s)	COC No						
Client Contact: Shipping/Receiving		Phone:	Kudchadkar, Sachin G		860-6388.1						
Company: TestAmerica Laboratories, Inc.		E-Mail:	Sachin.Kudchadkar@Eurofinset.com	State of Origin Texas	Page 1 of 2						
Address: 13715 Rider Trail North,		Accreditations Required (See note)		Job #	860-13347-1						
City: Earth City	State: MO	PO #:	Preservation Codes:								
State Zip: MO, 63045	Phone: 314-298-8566(Tel) 314-298-8757(Fax)	WO #:	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 - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)								
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103	SSOW#:	Other:								
Site:											
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R-RaDry_Grind (MOD) Radium-226/228	Analysis Requested	Total Number of Containers	Special Instructions/Note:
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 our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins 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
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) _____
Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____ Time: _____
Relinquished by: _____ Date/Time: _____ Company: _____
Relinquished by: _____ Date/Time: _____ Company: _____
Relinquished by: _____ Date/Time: _____ Company: _____

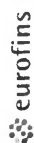
Custody Seals Intact: _____ Custody Seal No.: _____
Cooler Temperature(s) °C and Other Remarks: _____

Ver: 06/08/2021

Eurofins Xenco, Stafford

4147 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

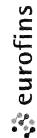


Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Shipping/Receiving		Phone:	Kudchadkar, Sachin G		860-6388.2
Company: TestAmerica Laboratories, Inc.			E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page 2 of 2
Address: 13715 Rider Trail North,			Job #		860-13347-1
City: Earth City	State: MO	Zip: 63045	Preservation Codes:		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	Email:		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 Other:		
Project Name: Chevron - Jal Land Farm Soils	Project #	SSOW#	Analysis Requested		
Site:	86002103		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)		
Due Date Requested: 10/27/2021	TAT Requested (days):	PO #	WO #	Total Number of containers	
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)
10/6/21	14:13 Central				
Sample Identification - Client ID (Lab ID)	Cell25-190-5-3-4-211006 (860-13347-10)				
Special Instructions/Note:					
GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228					
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/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					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)					
Primary Deliverable Rank: 2					
Empty Kit Relinquished by:					
Date:					
Time:					
Relinquished by:					
Date/Time:					
Company:					
Relinquished by:					
Date/Time:					
Company:					
Relinquished by:					
Date/Time:					
Company:					
Custody Seals Intact					
Custody Seal No.					
Cooler Temperature(s) °C and Other Remarks					

Ver: 06/08/2021

Chain of Custody Record

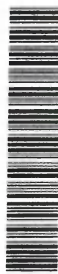


Environment Testing
America



Client Information (Sub Contract Lab)			Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:	
Client Contact:			Phone:		Kudchadkar, Sachin G				860-6381.1	
Shipping/Receiving					E-Mail:		State of Origin:		Page:	
Company:					Sachin.Kudchadkar@Eurofinset.com		Texas		Page 1 of 2	
TestAmerica Laboratories, Inc.									Job #:	
Address:									860-13347-1	
4955 Yarrow Street,										
City:										
Arvada										
State, Zip:										
CO, 80002										
Phone:										
303-736-0100(Tel) 303-431-7171(Fax)										
Email:										
Project Name:										
Chevron - Jal Land Farm Soils										
Site:										
SSOW#:										
Due Date Requested:										
10/26/2021										
TAT Requested (days):										
PO #:										
WO #:										
Project #:										
86002103										
Sample Date			Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)	
10/6/21			08:52 Central		Solid		Solid		X	
10/6/21			09:21 Central		Solid		Solid		X	
10/6/21			10:10 Central		Solid		Solid		X	
10/6/21			11:04 Central		Solid		Solid		X	
10/6/21			10:38 Central		Solid		Solid		X	
10/6/21			11:48 Central		Solid		Solid		X	
10/6/21			12:41 Central		Solid		Solid		X	
10/6/21			13:31 Central		Solid		Solid		X	
10/6/21			13:07 Central		Solid		Solid		X	
10/6/21			Central		Solid		Solid		X	
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)										
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/test/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										
Unconfirmed										
Deliverable Requested: I, II, III, IV, Other (specify)										
Primary Deliverable Rank: 2										
Empty Kit Relinquished by:										
Date:										
Date/Time:										
Company:										
Date/Time:										
Company:										
Date/Time:										
Company:										
Custody Seals Intact:										
Custody Seal No.:										
Ver: 06/08/2021										

Ver: 06/08/2021



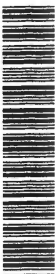
Chain of Custody Record

Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 3355 McLenore Drive, Pensacola, FL 32514 Phone: 850-474-1001 (Tel) 850-478-2671 (Fax) Email:			Lab PM: Kuchadkar, Sachin G Phone: Sachin.Kuchadkar@Eurofinset.com E-Mail:			Carrier Tracking No(s): 860-6387.1 State of Origin: Texas Page: 1 of 2 Job #: 860-13347-1				
Due Date Requested: 10/27/2021 TAT Requested (days):			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 - Na2SO3 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=other)	Field Filtered Sample (Yes or No)	8270D AgChem/3546 (MOD) Copy Analyses	Total Number of Containers	Special Instructions/Note:
Cell119-114-5-3-4-211006 (860-13347-1)	10/6/21	08:52	Central	Solid			X	1		
Cell118-45-5-3-4-211006 (860-13347-2)	10/6/21	09:21	Central	Solid			X	1		
Cell118-8-5-3-4-211006 (860-13347-3)	10/6/21	10:10	Central	Solid			X	1		
Cell118-162-5-3-4-211006 (860-13347-4)	10/6/21	11:04	Central	Solid			X	1		
Cell118-76-5-3-4-211006 (860-13347-5)	10/6/21	10:38	Central	Solid			X	1		
Cell117-127-5-3-4-211006 (860-13347-6)	10/6/21	11:48	Central	Solid			X	1		
Cell117-23-5-3-4-211006 (860-13347-7)	10/6/21	12:41	Central	Solid			X	1		
Cell117-136-5-3-4-211006 (860-13347-8)	10/6/21	13:31	Central	Solid			X	1		
Cell117-119-5-3-4-211006 (860-13347-9)	10/6/21	13:07	Central	Solid			X	1		
Note: Since laboratory accreditation is 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/test/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 Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 Empty Kit Relinquished by:										
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements:										
Relinquished by: <i>Dasda</i> Date: 10/9/21 Company:			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA	
Relinquished by: <i>Dasda</i> Date: 10/9/21 Company:			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA	
Relinquished by: <i>Dasda</i> Date: 10/9/21 Company:			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA	
Relinquished by: <i>Dasda</i> Date: 10/9/21 Company:			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA	
Relinquished by: <i>Dasda</i> Date: 10/9/21 Company:			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA	
Relinquished by: <i>Dasda</i> Date: 10/9/21 Company:			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA	
Relinquished by: <i>Dasda</i> Date: 10/9/21 Company:			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA	
Relinquished by: <i>Dasda</i> Date: 10/9/21 Company:			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA	
Relinquished by: <i>Dasda</i> Date: 10/9/21 Company:			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA			Relinquished by: <i>Kathy Rauer</i> Date/Time: 10-9-21 9:06 Company: EFA	
Relinquished by: <i>Dasda</i> Date: 10/9/21 Company:										

[illegible]

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

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:					
Client Contact: Shipping/Receiving		Phone:	Kudchadkar, Sachin G		860-6389-1					
Company: Eurofins Xenco			E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 2					
Address: 1733 N. Padre Island Drive,				Accreditations Required (See note): NELAP - Texas	Job #: 860-13347-1					
City: Corpus Christi				Preservation Codes:						
State, Zip: TX, 78408				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:						
Phone: 361-289-2471(Tel) 361-289-2673(Fax)		PO #:		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)						
Email:		WO #:								
Project Name: Chevron - Jal Land Farm Soils		Project #: 86002103								
Site:		SSOW#:								
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefill, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B, Solid (MOD) mod	2540C/TX_Day_1	Total Number of Containers	Special Instructions/Note:
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	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins 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	Deliverable Requested: I, II, III, IV, Other (specify)	Return To Client	Archive For
Primary Deliverable Rank: 2		☐	Months
Special Instructions/QC Requirements:			

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:
Relinquished by:	Signature	10/8/21		Company
Relinquished by:				Company
Relinquished by:				Company

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

Ver: 06/08/2021

Chain of Custody Record

Client Information (Sub Contract Lab)				Lab PM: Kudchadkar, Sachin G Carrier Tracking No(s): 860-6389.2	
Client Contact: Shipping/Receiving Phone: _____				Page: Page 2 of 2 State of Origin: Texas	
Company: Eurofins Xenco Address: 1733 N. Padre Island Drive, City: Corpus Christi State, Zip: TX, 78408 Phone: 361-289-2471 (Tel) 361-289-2673 (Fax) Email: _____				Job #: 860-13347-1 Accreditations Required (See note): NELAP - Texas	
Project Name: Chevron - Jal Land Farm Soils Project #: 86002103 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 - AshNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other: _____	
Analysis Requested				Special Instructions/Note:	
Due Date Requested: 10/26/2021 TAT Requested (days): _____				Total Number of Containers	
PO #: _____ WO #: _____				Field Filtered Sample (Yes or No)	
Sample Date: 10/6/21 Sample Time: 14:13 Central				Perform MS/MSD (Yes or No)	
Sample Type (C=comp, G=grab): _____ Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air): _____				2540C/TX_7Day_T	
Sample Identification - Client ID (Lab ID): Cell25-190-5-3-4-211006 (860-13347-10)				8260B/6030B_Solid (MOD) mod	
Relinquished by: _____ Relinquished by: _____ Relinquished by: _____				1	
Custody Seal No.: _____ A Yes A No				Special Instructions/Note:	

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/test/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
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____

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

Empty Kit Relinquished by: _____
 Relinquished by: _____
 Relinquished by: _____
 Relinquished by: _____

Custody Seal Intact: _____
 A Yes A No

Cooler Temperature(s) °C and Other Remarks: _____

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 860-13347-1

Login Number: 13347

List Number: 1

Creator: Torrez, Lisandra

List Source: Eurofins Xenco

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 860-13347-1

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 $\leq$ 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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 860-13347-1

Login Number: 13347

List Number: 3

Creator: Avery, Kathy R

List Source: Eurofins Pensacola

List Creation: 10/09/21 01:16 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 860-13347-1

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 $\leq$ 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 $<6\text{mm}$ (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 $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	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 $<6\text{mm}$ (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.



Environment Testing America

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?



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

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	5
Detection Summary	8
Client Sample Results	12
Surrogate Summary	49
QC Sample Results	53
QC Association Summary	89
Lab Chronicle	101
Certification Summary	110
Method Summary	113
Sample Summary	115
Chain of Custody	116
Receipt Checklists	122

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

Definitions/Glossary

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

Job ID: 860-13405-1

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 than 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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)

Eurofins Xenco

Definitions/Glossary

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

Job ID: 860-13405-1

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.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-13405-1

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 0.3° C, 1.3° C, 2.3° C, 2.9° C, 3.6° C and 4.3° 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 proportionally.

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 were made for this report:

Inferred from	Reported to Analyte
Th-234	Pa-234
Th-234	U-238
Pb-210	Po-210
Pb-210	Bi-210

Case Narrative

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

Job ID: 860-13405-1

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 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.

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 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.

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.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-13405-1

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 free 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 MS) 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 extracted. 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.

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

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.

Job ID: 860-13405-1

Project/Site: Chevron - Jal Land Farm Soils

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.

Job ID: 860-13405-1

Project/Site: Chevron - Jal Land Farm Soils

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.

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: Cell25-21-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: 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

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: Cell25-21-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

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

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: Cell25-21-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: 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

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: Cell25-21-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: 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

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: Cell25-21-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

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

Lab Sample ID: 860-13405-2

Date Collected: 10/07/21 09:08

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	0.716	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

Lab Sample ID: 860-13405-2

Date Collected: 10/07/21 09:08

Matrix: Solid

Date Received: 10/09/21 10:00

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

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

Lab Sample ID: 860-13405-2

Date Collected: 10/07/21 09:08

Matrix: Solid

Date Received: 10/09/21 10:00

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

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

Lab Sample ID: 860-13405-2

Date Collected: 10/07/21 09:08

Matrix: Solid

Date Received: 10/09/21 10:00

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

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

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

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

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

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: Cell25-97-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

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: Cell25-97-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: 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

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: Cell25-97-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: 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
<i>o</i> -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

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: Cell25-97-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: 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

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: Cell25-97-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

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: 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) (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

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: 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)

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

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: 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
Oil 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

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: 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: 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

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: 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

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: 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: 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

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: 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

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

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: 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: 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

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: 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: 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

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: 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

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: 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

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: 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) (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

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: 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: 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

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: 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: 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
<i>o</i> -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
<i>Tetrachloro-m-xylene</i>	71		35 - 135				10/12/21 08:39	10/18/21 18:34	1
<i>DCB Decachlorobiphenyl (Surr)</i>	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

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: 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: 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

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: 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

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: 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) (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

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: 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)

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

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: 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
Oil 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

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: 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: 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

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: 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

Eurofins Xenco

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (65-152)	TOL (65-139)	DBFM (50-136)	BFB (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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (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)					

Eurofins Xenco

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)

Lab Sample ID	Client Sample ID	TPP (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)

Lab Sample ID	Client Sample ID	FBP (30-115)	2FP (25-121)	TBP (19-122)	NBZ (23-129)	PHL (24-113)	TPHd14 (18-137)
860-13405-1	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)

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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						

Eurofins Xenco

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								

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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								

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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	Limit
1,2-Diphenylhydrazine(as Azobenzene)	1330	1318		ug/Kg		99	20 - 157	5	30

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Client Sample ID: Cell26-158-S-3-4-211007

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 26507

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

Client Sample ID: Cell26-158-S-3-4-211007

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 26507

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

Eurofins Xenco

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

Client Sample ID: Cell26-158-S-3-4-211007

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 26507

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

Eurofins Xenco

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	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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

	LCS	LCS	
Surrogate	%Recovery	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

	LCSD	LCSD	
Surrogate	%Recovery	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

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dinitrobenzene	100		83 - 122

Eurofins Xenco

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	MSD 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	DU 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

Eurofins Xenco

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	%Recovery	TRL 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 MB 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 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	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

Eurofins Xenco

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

Eurofins Xenco

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						

Eurofins Xenco

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

Eurofins Xenco

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	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	Limit
Zinc	9.80	9.632		mg/Kg		98	80 - 120	10	20

Eurofins Xenco

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	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	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	Limit
Mercury	0.192	0.2108		mg/Kg		110	80 - 120	3	20

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

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. (2 σ +/-)	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.

Job ID: 860-13405-1

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
860-13405-1	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	

Eurofins Xenco

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

Eurofins Xenco

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	

Eurofins Xenco

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-13405-1

Project/Site: Chevron - Jal Land Farm Soils

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

Eurofins Xenco

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-13405-1

Project/Site: Chevron - Jal Land Farm Soils

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	

Eurofins Xenco

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

Eurofins Xenco

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-13405-1

Project/Site: Chevron - Jal Land Farm Soils

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

Eurofins Xenco

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	

Eurofins Xenco

QC Association Summary

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

Job ID: 860-13405-1

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

Eurofins Xenco

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-13405-1

Project/Site: Chevron - Jal Land Farm Soils

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	

Eurofins Xenco

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

Eurofins Xenco

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Lab Chronicle

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

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

Eurofins Xenco

Accreditation/Certification Summary

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

Job ID: 860-13405-1

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.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-13405-1

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: 860-13405-1

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.

Job ID: 860-13405-1

Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
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.

Eurofins Xenco

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		

Eurofins Xenco

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

Eurofins Xenco, Stafford

4147 Greenbush Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

Environment Testing
America

Client Information				Sample		Lab Pk		Chain of Custody										
Client Contact: Allison Schaefer				Phone: 432-288-0876		E-Mail: Sachin.Kuchachacka@Eurofins.com		860-13405 Chain of Custody										
Company: ARCADIS U.S. Inc.				Due Date Requested:		FMSID:		Analysis Requested										
Address: 630 Plaza Drive Suite 100				City: Highlands Ranch		State, Zip: CO, 80129-2377		PO #:										
Phone: 303-710-7537 (Tel)				Compliance Project: ☐ Yes ☐ No		Purchase Order Requested		WFO #:										
Email: Allison.Schaefer@arcadis.com				Project #:		88002103		SSOW#:										
Project Name: Chevron - Jell Land Farm Soils				Site:														
Sample Identification	Sample Date	Sample Time	Sample Type (G=grab, B=bulk, etc.)	Matrix (Inorganic, Organic, etc.)	Field Filtered Sample (Yes or No)	Pharm. Inhib. (Yes or No)	GA_01_R_Ra (MOD) Radium-226/228	8860 Standard 8860 list	8330B (MOD) DOD Sublet	PFC (MOD) Custom List	8270D_AgChem (MOD) Copy Analytes	2640C Local Method	8260B (MOD) mod	8260C_SIM 1,4-Dioxane	8016MOD_NM (MOD) Copy Analytes	8020A, 7471A, 8081B, 8082A, 8270D, 8012A, 8046D, 8066A_ORGFM_28D, 8056A_ORGFM_48H, 8066	Total Number of containers	Special Instructions/Note:
Cell 25-21-5-3-4-211007	10/7/21	0848	B	Solid			X	X	X	X	X	X	X	X	X	X	Temp: 2.1 Corrected Temp: 2.3 IR ID: HOU-272	
Cell 25-35-5-3-4-211007	10/7/21	0907	B	Solid			X	X	X	X	X	X	X	X	X	X	Temp: 4.1 Corrected Temp: 4.3 IR ID: HOU-272	
Cell 25-97-5-3-4-211007	10/7/21	0936	B	Solid			X	X	X	X	X	X	X	X	X	X	Temp: 0.1 Corrected Temp: 0.3 IR ID: HOU-272	
Cell 26-101-5-3-4-211007	10/7/21	1025	B	Solid			X	X	X	X	X	X	X	X	X	X	Temp: 1.1 Corrected Temp: 1.3 IR ID: HOU-272	
Cell 26-158-5-3-4-211007	10/7/21	1058	B	Solid			X	X	X	X	X	X	X	X	X	X	Temp: 2.5 Corrected Temp: 2.7 IR ID: HOU-272	
Cell 26-129-5-3-4-211007	10/7/21	1124	B	Solid			X	X	X	X	X	X	X	X	X	X	Temp: 3.4 Corrected Temp: 3.6 IR ID: HOU-272	
Cell 26-49-5-3-4-211007	10/7/21	1157	B	Solid			X	X	X	X	X	X	X	X	X	X	Temp: 2.7 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/OC Requirements:														
Empty Kit Relinquished by:				Date:				Time:				Method of Shipment:						
Relinquished by: Henry S. Langford				Date/Time: 10/7/21 / 1222				Company: ARCADIS				Received by: Sachin						
Relinquished by: [Signature]				Date/Time: 10/7/21 / 10:00				Company: ARCADIS				Received by: [Signature]						
Custody Seals Intact: ☒ Yes ☐ No				Custody Seal No.				Code: Temperature(s) °C and Other Remarks:										

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

Chain of Custody Record



Environment Testing
 America

Client Information (Sub Contract Lab)		Lab PM	Carrier Tracking No(s)	COC No:						
Client Contact Shipping/Receiving		Kudchadkar, Sachin G		860-6438.1						
Company TesAmerica Laboratories, Inc.		E Mail Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page Page 1 of 1						
Address 13715 Rider Trail North,		Job # 860-13405-1								
City Earth City	Due Date Requested: 10/28/2021	Preservation Codes:								
State, Zip MO, 63045	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 - Na2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice J - DI Water U - Acetone K - EDTA V - MCAA L - EDA W - pH 4.5 Z - other (specify)								
Phone 314-298-8566(Tel) 314-298-8757(Fax)	PO #	Other:								
Email	WO #									
Project Name Chevron - Jal Land Farm Soils	Project # 86002103									
Site	SSOW#									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, B=biomass, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA-01 R-RaDry-GHnd (MOD) Radium-226/228	Analysis Requested	Total Number of containers	Special Instructions/Note:
Cell25-21-5-3-4-211007 (860-13405-1)	10/7/21	08:48 Central		Solid		X	X		2	
Cell25-35-5-3-4-211007 (860-13405-2)	10/7/21	09:08 Central		Solid		X	X		2	
Cell25-97-5-3-4-211007 (860-13405-3)	10/7/21	09:36 Central		Solid		X	X		2	
Cell26-101-5-3-4-211007 (860-13405-4)	10/7/21	10:25 Central		Solid		X	X		2	
Cell26-158-5-3-4-211007 (860-13405-5)	10/7/21	10:55 Central		Solid		X	X		2	
Cell26-129-5-3-4-211007 (860-13405-6)	10/7/21	11:24 Central		Solid		X	X		2	
Cell26-49-5-3-4-211007 (860-13405-7)	10/7/21	11:51 Central		Solid		X	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/test/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
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 10/11/21 Company: _____
 Relinquished by: **FED EX** Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____ Custody Seal No. _____
 Δ Yes Δ No
 Cooler Temperature(s) °C and Other Remarks

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

Received by: **FED EX** Date/Time: **OCT 12 2021 08:05** Company: **ETA**
 Received by: **MICHA KOWALNY** Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____

Eurofins Xenco, Stafford

4147 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Lab PM	Carrier Tracking No(s)		COC No.			
Client Contact Shipping/Receiving		Kudchadkar, Sachin G			860-6438.1			
Company TesAmerica Laboratories, Inc.		E-Mail Sachin.Kudchadkar@Eurofinset.com	State of Origin Texas		Page 1 of 1			
Address 13715 Rider Trail North,		Accreditations Required (See note): NELAP - Texas		Job #	860-13405-1			
City Earth City		Analysis Requested		Preservation Codes:				
State, Zip MO, 63045				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:				
Phone 314-298-8566(Tel) 314-298-8757(Fax)		PO #						
Email		WO #						
Project Name Chevron - Jal Land Farm Soils		Project # 86002103						
Site		SSOW#						
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=soil, B=biomass, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note:
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/test/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								
Unconfirmed								
Deliverable Requested: I, II, III, IV, Other (specify)			Primary Deliverable Rank: 2			Special Instructions/QC Requirements:		
Empty Kit Relinquished by:			Date:			Time:		
Relinquished by			Company			Method of Shipment		
Relinquished by			Company			Received by		
Relinquished by			Company			Date/Time		
Custody Seals Intact			Custody Seal No.			Cooler Temperature(s) °C and Other Remarks		
Δ Yes Δ No								

Eurofins Xenco, Stafford

4147 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

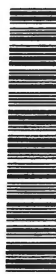
Environment Testing
America

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:						
Client Contact		Kudchadkar, Sachin G	Kudchadkar, Sachin G		860-6437.1						
Shipping/Receiving		Phone:	E-Mail:	State of Origin:	Page:						
Company:			Sachin.Kudchadkar@Eurofinset.com	Texas	Page 1 of 1						
TestAmerica Laboratories, Inc.		Accreditations Required (See note):									
Address:		NELAP - Texas									
4955 Yarrow Street,											
City:											
Arvada											
State:											
CO, 80002											
Phone:											
303-736-0100(Tel) 303-431-7171(Fax)											
Email:											
Project Name:											
Chevron - Jal Land Farm Soils											
Site:											
SSOW#:											
Due Date Requested:		Analysis Requested									
10/27/2021											
TAT Requested (days):											
PO #:											
WO #:											
Project #:											
86002103											
Site:											
SSOW#:											
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oli, 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_DP_SLSS (MOD) DOD Sublist	Total Number of Containers	Special Instructions/Note:
Cell25-21-5-3-4-211007 (860-13405-1)	10/7/21	08:48 Central		Solid	X	X	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	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	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	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	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	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	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/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											
Unconfirmed											
Deliverable Requested: I, II, III, IV, Other (specify)											
Primary Deliverable Rank: 2											
Special Instructions/QC Requirements:											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months											
Method of Shipment:											
Date/Time:											
Received by: <i>peer</i>											
Date/Time: 10/12/21 10:40											
Company: EA/OGA											
Received by:											
Date/Time:											
Company:											
Received by:											
Date/Time:											
Company:											
Cooler Temperature(s) °C and Other Remarks: 1.7 0.3 1R1 CF 0-1-0											
Custody Seal No.: 1738133 1738132											
Custody Seals Intact: ☒ Yes ☐ No											

Ver: 06/08/2021

4147 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record



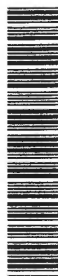
**Environment Testing
America**

[illegible]

Eurofins Xenco, Stafford

4147 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

Environment Testing
America

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:						
Client Contact: Shipping/Receiving		Phone:	Kudchadkar, Sachin G		860-6439.1						
Company: Eurofins Xenco			E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1						
Address: 1733 N. Padre Island Drive, City: Corpus Christi State, Zip: TX, 78408 Phone: 361-289-2471(Tel) 361-289-2673(Fax) Email: Project Name: Chevron - Jal Land Farm Soils Site:		Accreditations Required (See note): NELAP - Texas									
Due Date Requested: 10/27/2021 TAT Requested (days):		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 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)	826B/503B Solid (MOD) mod	2540C/TX_7Day_T	Analysis Requested	Total Number of containers	Special Instructions/Note:
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/test/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 Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Δ Yes Δ No											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements: _____ Method of Shipment: _____ Received by: _____ Date/Time: 10/12/2021 1035 Company: EA Received by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____ Cooler Temperature(s) °C and Other Remarks: 5.2 Cel F - 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 Number: 1

Creator: Torrez, Lisandra

List Source: Eurofins Xenco

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 860-13405-1

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 $\leq$ 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 $<6\text{mm}$ (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 $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 860-13405-1

Login Number: 13405

List Number: 5

Creator: Korrinhizer, Micha L

List Source: Eurofins St. Louis

List Creation: 10/12/21 06:19 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	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 $<6\text{mm}$ (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 $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 860-17264-1

Client Project/Site: Chevron - Jal Land Farm Soils

For:

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

Attn: Alison Schaffer

A handwritten signature in black ink that reads "Sachin Kudchadkar".

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

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 860-17264-1

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	13
QC Sample Results	15
QC Association Summary	21
Lab Chronicle	24
Certification Summary	29
Method Summary	30
Sample Summary	31
Chain of Custody	32
Receipt Checklists	33

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 860-17264-1

Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

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

GC Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

HPLC/IC

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

Glossary

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

Eurofins Xenco, Stafford

Case Narrative

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

Job ID: 860-17264-1

Job ID: 860-17264-1**Laboratory: Eurofins Xenco, Stafford****Narrative****Job Narrative
860-17264-1****Receipt**

The samples were received on 12/14/2021 10:22 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

GC/MS VOA

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

GC Semi VOA

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

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

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

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

HPLC/IC

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

General Chemistry

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

Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17264-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square16-S-3-4-211213

Lab Sample ID: 860-17264-1

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

Client Sample ID: Cell17-Square120-S-3-4-211213

Lab Sample ID: 860-17264-2

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

Client Sample ID: Cell17-Square116-S-3-4-211213

Lab Sample ID: 860-17264-3

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

Client Sample ID: Cell17-Square130-S-3-4-211213

Lab Sample ID: 860-17264-4

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

Client Sample ID: Cell18-Square175-S-3-4-211213

Lab Sample ID: 860-17264-5

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

Client Sample ID: Cell18-Square156-S-3-4-211213

Lab Sample ID: 860-17264-6

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

Client Sample ID: Cell18-Square14-S-3-4-211213

Lab Sample ID: 860-17264-7

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

Client Sample ID: Cell18-Square22-S-3-4-211213

Lab Sample ID: 860-17264-8

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

Client Sample ID: Cell19-Square83-S-3-4-211213

Lab Sample ID: 860-17264-9

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

Client Sample ID: Cell19-Square144-S-3-4-211213

Lab Sample ID: 860-17264-10

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

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17264-1

Client Sample ID: Cell17-Square16-S-3-4-211213

Lab Sample ID: 860-17264-1

Date Collected: 12/13/21 10:00

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 92.1

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

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

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

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

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

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

Method: 9056A - Anions, Ion Chromatography

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

Client Sample ID: Cell17-Square120-S-3-4-211213

Lab Sample ID: 860-17264-2

Date Collected: 12/13/21 10:20

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 93.6

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

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

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

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

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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17264-1

Client Sample ID: Cell17-Square120-S-3-4-211213

Lab Sample ID: 860-17264-2

Date Collected: 12/13/21 10:20

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 93.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	22.5	U	53.4	22.5	mg/Kg	☼	12/23/21 13:20	12/23/21 18:31	1
Oil Range Organics (Over C28-C36)	22.5	U	53.4	22.5	mg/Kg	☼	12/23/21 13:20	12/23/21 18:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		65 - 130				12/23/21 13:20	12/23/21 18:31	1
o-Terphenyl (Surr)	132	X	65 - 130				12/23/21 13:20	12/23/21 18:31	1

Method: 9056A - Anions, Ion Chromatography

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

Client Sample ID: Cell17-Square116-S-3-4-211213

Lab Sample ID: 860-17264-3

Date Collected: 12/13/21 10:50

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000222	U	0.00107	0.000222	mg/Kg	☼	12/16/21 21:50	12/18/21 03:34	1
Toluene	0.00107	U	0.00537	0.00107	mg/Kg	☼	12/16/21 21:50	12/18/21 03:34	1
Ethylbenzene	0.000361	U	0.00107	0.000361	mg/Kg	☼	12/16/21 21:50	12/18/21 03:34	1
m,p-Xylenes	0.000860	U	0.00215	0.000860	mg/Kg	☼	12/16/21 21:50	12/18/21 03:34	1
o-Xylene	0.00106	U	0.00107	0.00106	mg/Kg	☼	12/16/21 21:50	12/18/21 03:34	1
Xylenes, Total	0.00106	U	0.00215	0.00106	mg/Kg	☼	12/16/21 21:50	12/18/21 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		56 - 150				12/16/21 21:50	12/18/21 03:34	1
4-Bromofluorobenzene (Surr)	101		68 - 152				12/16/21 21:50	12/18/21 03:34	1
Dibromofluoromethane (Surr)	94		53 - 142				12/16/21 21:50	12/18/21 03:34	1
Toluene-d8 (Surr)	105		70 - 130				12/16/21 21:50	12/18/21 03:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.6	U	53.6	22.6	mg/Kg	☼	12/23/21 13:20	12/23/21 18:50	1
Diesel Range Organics (Over C10-C28)	22.6	U	53.6	22.6	mg/Kg	☼	12/23/21 13:20	12/23/21 18:50	1
Oil Range Organics (Over C28-C36)	22.6	U	53.6	22.6	mg/Kg	☼	12/23/21 13:20	12/23/21 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		65 - 130				12/23/21 13:20	12/23/21 18:50	1
o-Terphenyl (Surr)	125		65 - 130				12/23/21 13:20	12/23/21 18:50	1

Method: 9056A - Anions, Ion Chromatography

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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17264-1

Client Sample ID: Cell17-Square130-S-3-4-211213

Lab Sample ID: 860-17264-4

Date Collected: 12/13/21 11:05

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 83.7

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

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

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

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

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

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

Method: 9056A - Anions, Ion Chromatography

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

Client Sample ID: Cell18-Square175-S-3-4-211213

Lab Sample ID: 860-17264-5

Date Collected: 12/13/21 11:30

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 91.5

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

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

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

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

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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17264-1

Client Sample ID: Cell18-Square175-S-3-4-211213

Lab Sample ID: 860-17264-5

Date Collected: 12/13/21 11:30

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	23.1	U	54.7	23.1	mg/Kg	☼	12/23/21 13:20	12/23/21 19:25	1
Oil Range Organics (Over C28-C36)	23.1	U	54.7	23.1	mg/Kg	☼	12/23/21 13:20	12/23/21 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		65 - 130				12/23/21 13:20	12/23/21 19:25	1
o-Terphenyl (Surr)	134	X	65 - 130				12/23/21 13:20	12/23/21 19:25	1

Method: 9056A - Anions, Ion Chromatography

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

Client Sample ID: Cell18-Square156-S-3-4-211213

Lab Sample ID: 860-17264-6

Date Collected: 12/13/21 12:00

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 90.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000227	U	0.00110	0.000227	mg/Kg	☼	12/16/21 21:50	12/18/21 04:37	1
Toluene	0.00110	U	0.00548	0.00110	mg/Kg	☼	12/16/21 21:50	12/18/21 04:37	1
Ethylbenzene	0.000368	U	0.00110	0.000368	mg/Kg	☼	12/16/21 21:50	12/18/21 04:37	1
m,p-Xylenes	0.000876	U	0.00219	0.000876	mg/Kg	☼	12/16/21 21:50	12/18/21 04:37	1
o-Xylene	0.00108	U	0.00110	0.00108	mg/Kg	☼	12/16/21 21:50	12/18/21 04:37	1
Xylenes, Total	0.00108	U	0.00219	0.00108	mg/Kg	☼	12/16/21 21:50	12/18/21 04:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		56 - 150				12/16/21 21:50	12/18/21 04:37	1
4-Bromofluorobenzene (Surr)	94		68 - 152				12/16/21 21:50	12/18/21 04:37	1
Dibromofluoromethane (Surr)	92		53 - 142				12/16/21 21:50	12/18/21 04:37	1
Toluene-d8 (Surr)	107		70 - 130				12/16/21 21:50	12/18/21 04:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.3	U	55.3	23.3	mg/Kg	☼	12/23/21 13:20	12/23/21 20:01	1
Diesel Range Organics (Over C10-C28)	23.3	U	55.3	23.3	mg/Kg	☼	12/23/21 13:20	12/23/21 20:01	1
Oil Range Organics (Over C28-C36)	23.3	U	55.3	23.3	mg/Kg	☼	12/23/21 13:20	12/23/21 20:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		65 - 130				12/23/21 13:20	12/23/21 20:01	1
o-Terphenyl (Surr)	128		65 - 130				12/23/21 13:20	12/23/21 20:01	1

Method: 9056A - Anions, Ion Chromatography

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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17264-1

Client Sample ID: Cell18-Square14-S-3-4-211213

Lab Sample ID: 860-17264-7

Date Collected: 12/13/21 12:20

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 87.1

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

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

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

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

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

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

Method: 9056A - Anions, Ion Chromatography

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

Client Sample ID: Cell18-Square22-S-3-4-211213

Lab Sample ID: 860-17264-8

Date Collected: 12/13/21 12:40

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 75.0

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

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

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

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

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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17264-1

Client Sample ID: Cell18-Square22-S-3-4-211213

Lab Sample ID: 860-17264-8

Date Collected: 12/13/21 12:40

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 75.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	28.0	U	66.3	28.0	mg/Kg	✱	12/23/21 13:20	12/23/21 20:37	1
Oil Range Organics (Over C28-C36)	28.0	U	66.3	28.0	mg/Kg	✱	12/23/21 13:20	12/23/21 20:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		65 - 130				12/23/21 13:20	12/23/21 20:37	1
o-Terphenyl (Surr)	129		65 - 130				12/23/21 13:20	12/23/21 20:37	1

Method: 9056A - Anions, Ion Chromatography

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

Client Sample ID: Cell19-Square83-S-3-4-211213

Lab Sample ID: 860-17264-9

Date Collected: 12/13/21 13:30

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000231	U	0.00112	0.000231	mg/Kg	✱	12/16/21 21:50	12/19/21 16:03	1
Toluene	0.00112	U	0.00558	0.00112	mg/Kg	✱	12/16/21 21:50	12/19/21 16:03	1
Ethylbenzene	0.000375	U	0.00112	0.000375	mg/Kg	✱	12/16/21 21:50	12/19/21 16:03	1
m,p-Xylenes	0.000893	U	0.00223	0.000893	mg/Kg	✱	12/16/21 21:50	12/19/21 16:03	1
o-Xylene	0.00110	U	0.00112	0.00110	mg/Kg	✱	12/16/21 21:50	12/19/21 16:03	1
Xylenes, Total	0.00110	U	0.00223	0.00110	mg/Kg	✱	12/16/21 21:50	12/19/21 16:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		56 - 150				12/16/21 21:50	12/19/21 16:03	1
4-Bromofluorobenzene (Surr)	113		68 - 152				12/16/21 21:50	12/19/21 16:03	1
Dibromofluoromethane (Surr)	98		53 - 142				12/16/21 21:50	12/19/21 16:03	1
Toluene-d8 (Surr)	105		70 - 130				12/16/21 21:50	12/19/21 16:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.5	U	55.6	23.5	mg/Kg	✱	12/23/21 13:20	12/23/21 20:55	1
Diesel Range Organics (Over C10-C28)	23.5	U	55.6	23.5	mg/Kg	✱	12/23/21 13:20	12/23/21 20:55	1
Oil Range Organics (Over C28-C36)	23.5	U	55.6	23.5	mg/Kg	✱	12/23/21 13:20	12/23/21 20:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	X	65 - 130				12/23/21 13:20	12/23/21 20:55	1
o-Terphenyl (Surr)	143	X	65 - 130				12/23/21 13:20	12/23/21 20:55	1

Method: 9056A - Anions, Ion Chromatography

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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17264-1

Client Sample ID: Cell19-Square144-S-3-4-211213

Lab Sample ID: 860-17264-10

Date Collected: 12/13/21 13:50

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 94.8

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

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

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

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

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

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

Method: 9056A - Anions, Ion Chromatography

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

Eurofins Xenco, Stafford

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17264-1

Project/Site: Chevron - Jal Land Farm Soils

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

Matrix: Solid

Prep Type: Total/NA

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

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

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

Eurofins Xenco, Stafford

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17264-1

Project/Site: Chevron - Jal Land Farm Soils

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

Matrix: Solid

Prep Type: Total/NA

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

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 860-17264-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-34813/8

Matrix: Solid

Analysis Batch: 34813

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			12/18/21 02:11	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			12/18/21 02:11	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			12/18/21 02:11	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			12/18/21 02:11	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			12/18/21 02:11	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			12/18/21 02:11	1

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

Lab Sample ID: LCS 860-34813/3

Matrix: Solid

Analysis Batch: 34813

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	0.04863		mg/Kg		97	66 - 142
Toluene	0.0500	0.05159		mg/Kg		103	74 - 130
Ethylbenzene	0.0500	0.05623		mg/Kg		112	80 - 130
m,p-Xylenes	0.0500	0.05203		mg/Kg		104	78 - 130
o-Xylene	0.0500	0.05544		mg/Kg		111	79 - 130

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

Lab Sample ID: LCSD 860-34813/4

Matrix: Solid

Analysis Batch: 34813

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	0.04548		mg/Kg		91	66 - 142	7	25
Toluene	0.0500	0.04963		mg/Kg		99	74 - 130	4	25
Ethylbenzene	0.0500	0.05449		mg/Kg		109	80 - 130	3	25
m,p-Xylenes	0.0500	0.05017		mg/Kg		100	78 - 130	4	25
o-Xylene	0.0500	0.05427		mg/Kg		109	79 - 130	2	25

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

Eurofins Xenco, Stafford

QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 860-17264-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-34855/7

Matrix: Solid

Analysis Batch: 34855

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			12/19/21 13:57	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			12/19/21 13:57	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			12/19/21 13:57	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			12/19/21 13:57	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			12/19/21 13:57	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			12/19/21 13:57	1

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

Lab Sample ID: LCS 860-34855/3

Matrix: Solid

Analysis Batch: 34855

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	0.04399		mg/Kg		88	66 - 142
Toluene	0.0500	0.04545		mg/Kg		91	74 - 130
Ethylbenzene	0.0500	0.05008		mg/Kg		100	80 - 130
m,p-Xylenes	0.0500	0.04749		mg/Kg		95	78 - 130
o-Xylene	0.0500	0.05139		mg/Kg		103	79 - 130

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

Lab Sample ID: LCSD 860-34855/4

Matrix: Solid

Analysis Batch: 34855

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	0.04247		mg/Kg		85	66 - 142	4	25
Toluene	0.0500	0.04283		mg/Kg		86	74 - 130	6	25
Ethylbenzene	0.0500	0.04735		mg/Kg		95	80 - 130	6	25
m,p-Xylenes	0.0500	0.04500		mg/Kg		90	78 - 130	5	25
o-Xylene	0.0500	0.04909		mg/Kg		98	79 - 130	5	25

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

Eurofins Xenco, Stafford

QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 860-17264-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-35073/8

Matrix: Solid

Analysis Batch: 35073

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			12/21/21 11:38	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			12/21/21 11:38	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			12/21/21 11:38	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			12/21/21 11:38	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			12/21/21 11:38	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			12/21/21 11:38	1

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

Lab Sample ID: LCS 860-35073/3

Matrix: Solid

Analysis Batch: 35073

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	0.05201		mg/Kg		104	66 - 142
Toluene	0.0500	0.05105		mg/Kg		102	74 - 130
Ethylbenzene	0.0500	0.05312		mg/Kg		106	80 - 130
m,p-Xylenes	0.0500	0.05413		mg/Kg		108	78 - 130
o-Xylene	0.0500	0.05403		mg/Kg		108	79 - 130

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

Lab Sample ID: LCSD 860-35073/4

Matrix: Solid

Analysis Batch: 35073

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	0.04853		mg/Kg		97	66 - 142	7	25
Toluene	0.0500	0.04620		mg/Kg		92	74 - 130	10	25
Ethylbenzene	0.0500	0.04836		mg/Kg		97	80 - 130	9	25
m,p-Xylenes	0.0500	0.04898		mg/Kg		98	78 - 130	10	25
o-Xylene	0.0500	0.04834		mg/Kg		97	79 - 130	11	25

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

Eurofins Xenco, Stafford

QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 860-17264-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-35489/1-A

Matrix: Solid

Analysis Batch: 35534

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35489

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		12/23/21 13:20	12/23/21 16:44	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		12/23/21 13:20	12/23/21 16:44	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		12/23/21 13:20	12/23/21 16:44	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		65 - 130				12/23/21 13:20	12/23/21 16:44	1
o-Terphenyl (Surr)	127		65 - 130				12/23/21 13:20	12/23/21 16:44	1

Lab Sample ID: LCS 860-35489/2-A

Matrix: Solid

Analysis Batch: 35534

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35489

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	994	1081		mg/Kg		109	70 - 135
Diesel Range Organics (Over C10-C28)	994	1070		mg/Kg		108	70 - 135
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	133	X	65 - 130				
o-Terphenyl (Surr)	118		65 - 130				

Lab Sample ID: LCSD 860-35489/3-A

Matrix: Solid

Analysis Batch: 35534

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35489

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	994	1007		mg/Kg		101	70 - 135	7	35
Diesel Range Organics (Over C10-C28)	994	1085		mg/Kg		109	70 - 135	1	35
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	134	X	65 - 130						
o-Terphenyl (Surr)	117		65 - 130						

Lab Sample ID: 860-17264-1 MS

Matrix: Solid

Analysis Batch: 35534

Client Sample ID: Cell17-Square16-S-3-4-211213

Prep Type: Total/NA

Prep Batch: 35489

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

Eurofins Xenco, Stafford

QC Sample Results

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

Job ID: 860-17264-1

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

Lab Sample ID: 860-17264-1 MS

Matrix: Solid

Analysis Batch: 35534

Client Sample ID: Cell17-Square16-S-3-4-211213

Prep Type: Total/NA

Prep Batch: 35489

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

Lab Sample ID: 860-17264-1 MSD

Matrix: Solid

Analysis Batch: 35534

Client Sample ID: Cell17-Square16-S-3-4-211213

Prep Type: Total/NA

Prep Batch: 35489

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	22.9	U	1080	1123		mg/Kg	✱	104	70 - 135	8	35
Diesel Range Organics (Over C10-C28)	22.9	U	1080	1233		mg/Kg	✱	114	70 - 135	3	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	138	X	65 - 130								
o-Terphenyl (Surr)	121		65 - 130								

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-35181/28-A

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35181

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

Lab Sample ID: LCS 860-35181/29-A

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35181

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

Lab Sample ID: LCSD 860-35181/30-A

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35181

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

Lab Sample ID: 860-17264-6 MS

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Cell18-Square156-S-3-4-211213

Prep Type: Total/NA

Prep Batch: 35181

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

Eurofins Xenco, Stafford

QC Sample Results

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

Job ID: 860-17264-1

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

Lab Sample ID: 860-17264-6 MSD					Client Sample ID: Cell18-Square156-S-3-4-211213							
Matrix: Solid					Prep Type: Total/NA							
Analysis Batch: 35123					Prep Batch: 35181							
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Chloride	5.77	J	111	115.7		mg/Kg	✧	99	80 - 120	1	20	

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17264-1

Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 34665

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

Analysis Batch: 34813

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

Analysis Batch: 34855

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

Analysis Batch: 35073

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

Prep Batch: 35130

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

GC Semi VOA

Prep Batch: 35489

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

Eurofins Xenco, Stafford

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17264-1

Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Prep Batch: 35489 (Continued)

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

Analysis Batch: 35534

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

HPLC/IC

Analysis Batch: 35123

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

Eurofins Xenco, Stafford

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17264-1

Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Prep Batch: 35181

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

General Chemistry

Analysis Batch: 34312

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

Eurofins Xenco, Stafford

Lab Chronicle

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

Job ID: 860-17264-1

Client Sample ID: Cell17-Square16-S-3-4-211213

Lab Sample ID: 860-17264-1

Date Collected: 12/13/21 10:00

Matrix: Solid

Date Received: 12/14/21 10:22

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

Client Sample ID: Cell17-Square16-S-3-4-211213

Lab Sample ID: 860-17264-1

Date Collected: 12/13/21 10:00

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 92.1

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

Client Sample ID: Cell17-Square120-S-3-4-211213

Lab Sample ID: 860-17264-2

Date Collected: 12/13/21 10:20

Matrix: Solid

Date Received: 12/14/21 10:22

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

Client Sample ID: Cell17-Square120-S-3-4-211213

Lab Sample ID: 860-17264-2

Date Collected: 12/13/21 10:20

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.04 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	34813	12/18/21 03:13	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35489	12/23/21 13:20	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35534	12/23/21 18:31	T1S	XEN STF
Total/NA	Prep	300_Prep			5.09 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 04:34	ANP	XEN STF

Client Sample ID: Cell17-Square116-S-3-4-211213

Lab Sample ID: 860-17264-3

Date Collected: 12/13/21 10:50

Matrix: Solid

Date Received: 12/14/21 10:22

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

Eurofins Xenco, Stafford

Lab Chronicle

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

Job ID: 860-17264-1

Client Sample ID: Cell17-Square116-S-3-4-211213

Lab Sample ID: 860-17264-3

Date Collected: 12/13/21 10:50

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	34813	12/18/21 03:34	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	35489	12/23/21 13:20	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35534	12/23/21 18:50	T1S	XEN STF
Total/NA	Prep	300_Prep			5.01 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 04:47	ANP	XEN STF

Client Sample ID: Cell17-Square130-S-3-4-211213

Lab Sample ID: 860-17264-4

Date Collected: 12/13/21 11:05

Matrix: Solid

Date Received: 12/14/21 10:22

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

Client Sample ID: Cell17-Square130-S-3-4-211213

Lab Sample ID: 860-17264-4

Date Collected: 12/13/21 11:05

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 83.7

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

Client Sample ID: Cell18-Square175-S-3-4-211213

Lab Sample ID: 860-17264-5

Date Collected: 12/13/21 11:30

Matrix: Solid

Date Received: 12/14/21 10:22

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

Client Sample ID: Cell18-Square175-S-3-4-211213

Lab Sample ID: 860-17264-5

Date Collected: 12/13/21 11:30

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	34813	12/18/21 04:16	CSP	XEN STF
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	35489	12/23/21 13:20	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35534	12/23/21 19:25	T1S	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 05:12	ANP	XEN STF

Eurofins Xenco, Stafford

Lab Chronicle

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

Job ID: 860-17264-1

Client Sample ID: Cell18-Square156-S-3-4-211213

Lab Sample ID: 860-17264-6

Date Collected: 12/13/21 12:00

Matrix: Solid

Date Received: 12/14/21 10:22

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

Client Sample ID: Cell18-Square156-S-3-4-211213

Lab Sample ID: 860-17264-6

Date Collected: 12/13/21 12:00

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 90.8

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

Client Sample ID: Cell18-Square14-S-3-4-211213

Lab Sample ID: 860-17264-7

Date Collected: 12/13/21 12:20

Matrix: Solid

Date Received: 12/14/21 10:22

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

Client Sample ID: Cell18-Square14-S-3-4-211213

Lab Sample ID: 860-17264-7

Date Collected: 12/13/21 12:20

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 87.1

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

Client Sample ID: Cell18-Square22-S-3-4-211213

Lab Sample ID: 860-17264-8

Date Collected: 12/13/21 12:40

Matrix: Solid

Date Received: 12/14/21 10:22

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

Eurofins Xenco, Stafford

Lab Chronicle

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

Job ID: 860-17264-1

Client Sample ID: Cell18-Square22-S-3-4-211213

Lab Sample ID: 860-17264-8

Date Collected: 12/13/21 12:40

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 75.0

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

Client Sample ID: Cell19-Square83-S-3-4-211213

Lab Sample ID: 860-17264-9

Date Collected: 12/13/21 13:30

Matrix: Solid

Date Received: 12/14/21 10:22

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

Client Sample ID: Cell19-Square83-S-3-4-211213

Lab Sample ID: 860-17264-9

Date Collected: 12/13/21 13:30

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	34855	12/19/21 16:03	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	35489	12/23/21 13:20	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35534	12/23/21 20:55	T1S	XEN STF
Total/NA	Prep	300_Prep			4.92 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 06:55	ANP	XEN STF

Client Sample ID: Cell19-Square144-S-3-4-211213

Lab Sample ID: 860-17264-10

Date Collected: 12/13/21 13:50

Matrix: Solid

Date Received: 12/14/21 10:22

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

Client Sample ID: Cell19-Square144-S-3-4-211213

Lab Sample ID: 860-17264-10

Date Collected: 12/13/21 13:50

Matrix: Solid

Date Received: 12/14/21 10:22

Percent Solids: 94.8

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

Eurofins Xenco, Stafford

Lab Chronicle

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

Job ID: 860-17264-1

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17264-1

Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Xenco, Stafford

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	1306	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Eurofins Xenco, Stafford

Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17264-1

Project/Site: Chevron - Jal Land Farm Soils

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

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

Eurofins Xenco, Stafford

Sample Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17264-1

Project/Site: Chevron - Jal Land Farm Soils

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

Eurofins Xenco, Stafford

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

Chain of Custody Record

eurofins
Environment Testing
America

Sampler: <u>Daniel McGee</u>		Lab Pmt: <u>Kudchadkar Sachin G</u>	Carrier Tracking No(s):	COC No: <u>890-5911-2069.1</u>
Client Contact: <u>Alison Schaffer</u>		E-Mail: <u>Sachin.Kudchadkar@Eurofinset.com</u>	State of Origin:	Page: <u>1</u>
Company: <u>ARCADIS U.S. Inc.</u>		PWSID: <u>4132-999-2483</u>	Job #:	
Address: <u>630 Plaza Drive Suite 100</u>		Analysis Requested		
City: <u>Highlands Ranch</u>		Temp: <u>34</u> IR ID HOU-272		
State, Zip: <u>CO, 80129-2377</u>		C/F +0.0		
Phone: <u>303-710-7537(Tel)</u>		Corrected Temp: <u>3.4</u>		
Email: <u>Alison.Schaffer@arcadis.com</u>				
Project Name: <u>Chevron Jal Land Farm Soils</u>				
Site: <u>SSOW#</u>				
Due Date Requested:				
TAT Requested (days): <u>standard</u>				
Compliance Project: <u>Δ Yes Δ No</u>				
PO #: <u>86002103</u>				
WO #: <u>86002103</u>				
Project #:				
SSOW#:				
Matrix (Weigh, Swell, On-stabil, On-stabil)				
Sample Type (C=Comp, G=grab)				
Sample Time				
Sample Date				
Preservation Code:				
Field Filtered Sample (Yes or No)				
8260B BTEX				
8016MD NM GRO/DRO/RO				
8066A Chloride				
moisture				
Total Number of Containers				
Special Instructions/Note:				
Cell 117 - Square 16-S-3-4-211213				
Cell 117 - Square 120-S-3-4-211213				
Cell 117 - Square 116-S-3-4-211213				
Cell 117 - Square 130-S-3-4-211213				
Cell 118 - Square 175-S-3-4-211213				
Cell 118 - Square 156-S-3-4-211213				
Cell 118 - Square 144-S-3-4-211213				
Cell 118 - Square 22-S-3-4-211213				
Cell 119 - Square 83-S-3-4-211213				
Cell 19 - Square 144-S-3-4-211213				
Possible Hazard Identification				
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological				
Deliverable Requested: I II III IV Other (specify)				
Empty Kit Relinquished by: <u>[Signature]</u>		Date: <u>12-13-21</u> / <u>1720</u>		
Relinquished by: <u>[Signature]</u>		Date/Time: <u>12-13-21</u> / <u>1720</u>		
Relinquished by:		Date/Time:		
Relinquished by:		Date/Time:		
Custody Seals Intact: <u>Δ Yes Δ No</u>		Custody Seal No.		

Ver 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 860-17264-1

Login Number: 17264

List Source: Eurofins Xenco, Stafford

List Number: 1

Creator: Rubio, Yuri

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 860-17264-1

Login Number: 17264

List Source: Eurofins Xenco, Stafford

List Number: 2

Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (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.



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 860-17303-1

Client Project/Site: Chevron - Jal Land Farm Soils

For:

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

Attn: Alison Schaffer

A handwritten signature in black ink that reads "Sachin Kudchadkar".

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

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



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: 860-17303-1

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	7
Surrogate Summary	17
QC Sample Results	19
QC Association Summary	24
Lab Chronicle	28
Certification Summary	34
Method Summary	35
Sample Summary	36
Chain of Custody	37
Receipt Checklists	39

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 860-17303-1

Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Eurofins Xenco, Stafford

Case Narrative

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

Job ID: 860-17303-1

Job ID: 860-17303-1**Laboratory: Eurofins Xenco, Stafford****Narrative****Job Narrative
860-17303-1****Receipt**

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

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

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

General Chemistry

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

Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17303-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square128-S-3-4-211214

Lab Sample ID: 860-17303-1

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

Client Sample ID: Cell19-Square27-S-3-4-211214

Lab Sample ID: 860-17303-2

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

Client Sample ID: Cell20-Square18-S-3-4-211214

Lab Sample ID: 860-17303-3

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

Client Sample ID: Cell20-Square41-S-3-4-211214

Lab Sample ID: 860-17303-4

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

Client Sample ID: Cell20-Square14-S-3-4-211214

Lab Sample ID: 860-17303-5

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

Client Sample ID: Cell20-Square170-S-3-4-211214

Lab Sample ID: 860-17303-6

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

Client Sample ID: Cell21-Square18-S-3-4-211214

Lab Sample ID: 860-17303-7

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

Client Sample ID: Cell21-Square37-S-3-4-211214

Lab Sample ID: 860-17303-8

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

Client Sample ID: Cell21-Square117-S-3-4-211214

Lab Sample ID: 860-17303-9

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

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Stafford

Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17303-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square90-S-3-4-211214

Lab Sample ID: 860-17303-10

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

Client Sample ID: Cell25-Square190-S-3-4-211214

Lab Sample ID: 860-17303-11

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

Client Sample ID: Cell25-Square176-S-3-4-211214

Lab Sample ID: 860-17303-12

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

Client Sample ID: Cell25-Square33-S-3-4-211214

Lab Sample ID: 860-17303-13

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

Client Sample ID: Cell25-Square70-S-3-4-211214

Lab Sample ID: 860-17303-14

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

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17303-1

Client Sample ID: Cell19-Square128-S-3-4-211214

Lab Sample ID: 860-17303-1

Date Collected: 12/14/21 09:10

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 96.7

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

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

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

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

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

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

Method: 9056A - Anions, Ion Chromatography

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

Client Sample ID: Cell19-Square27-S-3-4-211214

Lab Sample ID: 860-17303-2

Date Collected: 12/14/21 10:00

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 92.9

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

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

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

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

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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17303-1

Client Sample ID: Cell19-Square27-S-3-4-211214

Lab Sample ID: 860-17303-2

Date Collected: 12/14/21 10:00

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	22.5	U	53.4	22.5	mg/Kg	✧	12/27/21 14:17	12/28/21 19:25	1
Oil Range Organics (Over C28-C36)	22.5	U	53.4	22.5	mg/Kg	✧	12/27/21 14:17	12/28/21 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		65 - 130				12/27/21 14:17	12/28/21 19:25	1
o-Terphenyl (Surr)	112		65 - 130				12/27/21 14:17	12/28/21 19:25	1

Method: 9056A - Anions, Ion Chromatography

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

Client Sample ID: Cell20-Square18-S-3-4-211214

Lab Sample ID: 860-17303-3

Date Collected: 12/14/21 10:30

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000237	U	0.00115	0.000237	mg/Kg	✧	12/16/21 21:50	12/23/21 13:20	1
Toluene	0.00123	J	0.00573	0.00115	mg/Kg	✧	12/16/21 21:50	12/23/21 13:20	1
Ethylbenzene	0.000385	U	0.00115	0.000385	mg/Kg	✧	12/16/21 21:50	12/23/21 13:20	1
m,p-Xylenes	0.000917	U	0.00229	0.000917	mg/Kg	✧	12/16/21 21:50	12/23/21 13:20	1
o-Xylene	0.00113	U	0.00115	0.00113	mg/Kg	✧	12/16/21 21:50	12/23/21 13:20	1
Xylenes, Total	0.00113	U	0.00229	0.00113	mg/Kg	✧	12/16/21 21:50	12/23/21 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		56 - 150				12/16/21 21:50	12/23/21 13:20	1
4-Bromofluorobenzene (Surr)	109		68 - 152				12/16/21 21:50	12/23/21 13:20	1
Dibromofluoromethane (Surr)	106		53 - 142				12/16/21 21:50	12/23/21 13:20	1
Toluene-d8 (Surr)	98		70 - 130				12/16/21 21:50	12/23/21 13:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.0	U	56.9	24.0	mg/Kg	✧	12/27/21 14:17	12/28/21 19:43	1
Diesel Range Organics (Over C10-C28)	24.0	U	56.9	24.0	mg/Kg	✧	12/27/21 14:17	12/28/21 19:43	1
Oil Range Organics (Over C28-C36)	24.0	U	56.9	24.0	mg/Kg	✧	12/27/21 14:17	12/28/21 19:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		65 - 130				12/27/21 14:17	12/28/21 19:43	1
o-Terphenyl (Surr)	117		65 - 130				12/27/21 14:17	12/28/21 19:43	1

Method: 9056A - Anions, Ion Chromatography

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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17303-1

Client Sample ID: Cell20-Square41-S-3-4-211214

Lab Sample ID: 860-17303-4

Date Collected: 12/14/21 10:45

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 91.9

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

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

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

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

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

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

Method: 9056A - Anions, Ion Chromatography

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

Client Sample ID: Cell20-Square14-S-3-4-211214

Lab Sample ID: 860-17303-5

Date Collected: 12/14/21 11:05

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 94.0

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

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

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

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

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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17303-1

Client Sample ID: Cell20-Square14-S-3-4-211214

Lab Sample ID: 860-17303-5

Date Collected: 12/14/21 11:05

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 94.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	22.3	U	52.9	22.3	mg/Kg	☼	12/27/21 14:17	12/28/21 20:19	1
Oil Range Organics (Over C28-C36)	22.3	U	52.9	22.3	mg/Kg	☼	12/27/21 14:17	12/28/21 20:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		65 - 130				12/27/21 14:17	12/28/21 20:19	1
o-Terphenyl (Surr)	115		65 - 130				12/27/21 14:17	12/28/21 20:19	1

Method: 9056A - Anions, Ion Chromatography

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

Client Sample ID: Cell20-Square170-S-3-4-211214

Lab Sample ID: 860-17303-6

Date Collected: 12/14/21 11:20

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 94.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000217	U	0.00105	0.000217	mg/Kg	☼	12/16/21 21:50	12/23/21 14:21	1
Toluene	0.00105	U	0.00524	0.00105	mg/Kg	☼	12/16/21 21:50	12/23/21 14:21	1
Ethylbenzene	0.000352	U	0.00105	0.000352	mg/Kg	☼	12/16/21 21:50	12/23/21 14:21	1
m,p-Xylenes	0.000839	U	0.00210	0.000839	mg/Kg	☼	12/16/21 21:50	12/23/21 14:21	1
o-Xylene	0.00103	U	0.00105	0.00103	mg/Kg	☼	12/16/21 21:50	12/23/21 14:21	1
Xylenes, Total	0.00103	U	0.00210	0.00103	mg/Kg	☼	12/16/21 21:50	12/23/21 14:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		56 - 150				12/16/21 21:50	12/23/21 14:21	1
4-Bromofluorobenzene (Surr)	113		68 - 152				12/16/21 21:50	12/23/21 14:21	1
Dibromofluoromethane (Surr)	102		53 - 142				12/16/21 21:50	12/23/21 14:21	1
Toluene-d8 (Surr)	100		70 - 130				12/16/21 21:50	12/23/21 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.2	U	52.6	22.2	mg/Kg	☼	12/27/21 14:17	12/28/21 20:55	1
Diesel Range Organics (Over C10-C28)	22.2	U	52.6	22.2	mg/Kg	☼	12/27/21 14:17	12/28/21 20:55	1
Oil Range Organics (Over C28-C36)	22.2	U	52.6	22.2	mg/Kg	☼	12/27/21 14:17	12/28/21 20:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		65 - 130				12/27/21 14:17	12/28/21 20:55	1
o-Terphenyl (Surr)	114		65 - 130				12/27/21 14:17	12/28/21 20:55	1

Method: 9056A - Anions, Ion Chromatography

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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17303-1

Client Sample ID: Cell21-Square18-S-3-4-211214

Lab Sample ID: 860-17303-7

Date Collected: 12/14/21 11:50

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 94.0

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

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

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

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

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

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

Method: 9056A - Anions, Ion Chromatography

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

Client Sample ID: Cell21-Square37-S-3-4-211214

Lab Sample ID: 860-17303-8

Date Collected: 12/14/21 12:10

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 93.3

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

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

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

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

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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17303-1

Client Sample ID: Cell21-Square37-S-3-4-211214

Lab Sample ID: 860-17303-8

Date Collected: 12/14/21 12:10

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 93.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	31.3	J	53.4	22.5	mg/Kg	☆	12/27/21 14:17	12/28/21 21:31	1
Oil Range Organics (Over C28-C36)	22.5	U	53.4	22.5	mg/Kg	☆	12/27/21 14:17	12/28/21 21:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		65 - 130				12/27/21 14:17	12/28/21 21:31	1
o-Terphenyl (Surr)	117		65 - 130				12/27/21 14:17	12/28/21 21:31	1

Method: 9056A - Anions, Ion Chromatography

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

Client Sample ID: Cell21-Square117-S-3-4-211214

Lab Sample ID: 860-17303-9

Date Collected: 12/14/21 12:40

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 93.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000219	U	0.00106	0.000219	mg/Kg	☆	12/16/21 21:50	12/23/21 15:22	1
Toluene	0.00111	J	0.00530	0.00106	mg/Kg	☆	12/16/21 21:50	12/23/21 15:22	1
Ethylbenzene	0.000356	U	0.00106	0.000356	mg/Kg	☆	12/16/21 21:50	12/23/21 15:22	1
m,p-Xylenes	0.000847	U	0.00212	0.000847	mg/Kg	☆	12/16/21 21:50	12/23/21 15:22	1
o-Xylene	0.00104	U	0.00106	0.00104	mg/Kg	☆	12/16/21 21:50	12/23/21 15:22	1
Xylenes, Total	0.00104	U	0.00212	0.00104	mg/Kg	☆	12/16/21 21:50	12/23/21 15:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		56 - 150				12/16/21 21:50	12/23/21 15:22	1
4-Bromofluorobenzene (Surr)	109		68 - 152				12/16/21 21:50	12/23/21 15:22	1
Dibromofluoromethane (Surr)	110		53 - 142				12/16/21 21:50	12/23/21 15:22	1
Toluene-d8 (Surr)	93		70 - 130				12/16/21 21:50	12/23/21 15:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.4	U	53.1	22.4	mg/Kg	☆	12/27/21 14:17	12/28/21 21:49	1
Diesel Range Organics (Over C10-C28)	22.4	U	53.1	22.4	mg/Kg	☆	12/27/21 14:17	12/28/21 21:49	1
Oil Range Organics (Over C28-C36)	22.4	U	53.1	22.4	mg/Kg	☆	12/27/21 14:17	12/28/21 21:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		65 - 130				12/27/21 14:17	12/28/21 21:49	1
o-Terphenyl (Surr)	113		65 - 130				12/27/21 14:17	12/28/21 21:49	1

Method: 9056A - Anions, Ion Chromatography

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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17303-1

Client Sample ID: Cell21-Square90-S-3-4-211214

Lab Sample ID: 860-17303-10

Date Collected: 12/14/21 12:55

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 91.3

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

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

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

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

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

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

Method: 9056A - Anions, Ion Chromatography

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

Client Sample ID: Cell25-Square190-S-3-4-211214

Lab Sample ID: 860-17303-11

Date Collected: 12/14/21 13:20

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 92.1

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

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

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

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

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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17303-1

Client Sample ID: Cell25-Square190-S-3-4-211214

Lab Sample ID: 860-17303-11

Date Collected: 12/14/21 13:20

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	23.0	U	54.4	23.0	mg/Kg	✧	12/27/21 14:17	12/28/21 22:24	1
Oil Range Organics (Over C28-C36)	23.0	U	54.4	23.0	mg/Kg	✧	12/27/21 14:17	12/28/21 22:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		65 - 130				12/27/21 14:17	12/28/21 22:24	1
o-Terphenyl (Surr)	116		65 - 130				12/27/21 14:17	12/28/21 22:24	1

Method: 9056A - Anions, Ion Chromatography

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

Client Sample ID: Cell25-Square176-S-3-4-211214

Lab Sample ID: 860-17303-12

Date Collected: 12/14/21 13:45

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000222	U	0.00107	0.000222	mg/Kg	✧	12/16/21 21:50	12/23/21 16:24	1
Toluene	0.00107	U	0.00536	0.00107	mg/Kg	✧	12/16/21 21:50	12/23/21 16:24	1
Ethylbenzene	0.000360	U	0.00107	0.000360	mg/Kg	✧	12/16/21 21:50	12/23/21 16:24	1
m,p-Xylenes	0.000858	U	0.00215	0.000858	mg/Kg	✧	12/16/21 21:50	12/23/21 16:24	1
o-Xylene	0.00106	U	0.00107	0.00106	mg/Kg	✧	12/16/21 21:50	12/23/21 16:24	1
Xylenes, Total	0.00106	U	0.00215	0.00106	mg/Kg	✧	12/16/21 21:50	12/23/21 16:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		56 - 150				12/16/21 21:50	12/23/21 16:24	1
4-Bromofluorobenzene (Surr)	104		68 - 152				12/16/21 21:50	12/23/21 16:24	1
Dibromofluoromethane (Surr)	108		53 - 142				12/16/21 21:50	12/23/21 16:24	1
Toluene-d8 (Surr)	95		70 - 130				12/16/21 21:50	12/23/21 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.8	U	54.0	22.8	mg/Kg	✧	12/27/21 14:17	12/28/21 22:42	1
Diesel Range Organics (Over C10-C28)	22.8	U	54.0	22.8	mg/Kg	✧	12/27/21 14:17	12/28/21 22:42	1
Oil Range Organics (Over C28-C36)	22.8	U	54.0	22.8	mg/Kg	✧	12/27/21 14:17	12/28/21 22:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		65 - 130				12/27/21 14:17	12/28/21 22:42	1
o-Terphenyl (Surr)	111		65 - 130				12/27/21 14:17	12/28/21 22:42	1

Method: 9056A - Anions, Ion Chromatography

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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17303-1

Client Sample ID: Cell25-Square33-S-3-4-211214

Lab Sample ID: 860-17303-13

Date Collected: 12/14/21 14:15

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 92.5

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

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

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

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

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

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

Method: 9056A - Anions, Ion Chromatography

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

Client Sample ID: Cell25-Square70-S-3-4-211214

Lab Sample ID: 860-17303-14

Date Collected: 12/14/21 14:30

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 89.7

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

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

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

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

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

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17303-1

Client Sample ID: Cell25-Square70-S-3-4-211214

Lab Sample ID: 860-17303-14

Date Collected: 12/14/21 14:30

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	23.3	U	55.3	23.3	mg/Kg	☼	12/27/21 14:17	12/28/21 23:18	1
Oil Range Organics (Over C28-C36)	23.3	U	55.3	23.3	mg/Kg	☼	12/27/21 14:17	12/28/21 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		65 - 130				12/27/21 14:17	12/28/21 23:18	1
o-Terphenyl (Surr)	128		65 - 130				12/27/21 14:17	12/28/21 23:18	1

Method: 9056A - Anions, Ion Chromatography

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

Eurofins Xenco, Stafford

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17303-1

Project/Site: Chevron - Jal Land Farm Soils

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

Matrix: Solid

Prep Type: Total/NA

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

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

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

Eurofins Xenco, Stafford

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17303-1

Project/Site: Chevron - Jal Land Farm Soils

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (65-130)	OTPH1 (65-130)
860-17303-10	Cell21-Square90-S-3-4-211214	109	118
860-17303-11	Cell25-Square190-S-3-4-21121 4	107	116
860-17303-12	Cell25-Square176-S-3-4-21121 4	104	111
860-17303-13	Cell25-Square33-S-3-4-211214	106	116
860-17303-14	Cell25-Square70-S-3-4-211214	118	128
LCS 860-35668/2-A	Lab Control Sample	124	110
LCSD 860-35668/3-A	Lab Control Sample Dup	121	108
MB 860-35668/1-A	Method Blank	104	113

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 860-17303-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-35424/8

Matrix: Solid

Analysis Batch: 35424

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			12/23/21 11:58	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			12/23/21 11:58	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			12/23/21 11:58	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			12/23/21 11:58	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			12/23/21 11:58	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			12/23/21 11:58	1

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

Lab Sample ID: LCS 860-35424/3

Matrix: Solid

Analysis Batch: 35424

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	0.04809		mg/Kg		96	66 - 142
Toluene	0.0500	0.04480		mg/Kg		90	74 - 130
Ethylbenzene	0.0500	0.04787		mg/Kg		96	80 - 130
m,p-Xylenes	0.0500	0.04838		mg/Kg		97	78 - 130
o-Xylene	0.0500	0.04812		mg/Kg		96	79 - 130

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

Lab Sample ID: LCSD 860-35424/4

Matrix: Solid

Analysis Batch: 35424

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	0.05349		mg/Kg		107	66 - 142	11	25
Toluene	0.0500	0.04384		mg/Kg		88	74 - 130	2	25
Ethylbenzene	0.0500	0.04882		mg/Kg		98	80 - 130	2	25
m,p-Xylenes	0.0500	0.04877		mg/Kg		98	78 - 130	1	25
o-Xylene	0.0500	0.04941		mg/Kg		99	79 - 130	3	25

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

Eurofins Xenco, Stafford

QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 860-17303-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-35425/8

Matrix: Solid

Analysis Batch: 35425

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			12/23/21 12:46	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			12/23/21 12:46	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			12/23/21 12:46	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			12/23/21 12:46	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			12/23/21 12:46	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			12/23/21 12:46	1

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

Lab Sample ID: LCS 860-35425/3

Matrix: Solid

Analysis Batch: 35425

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	0.04927		mg/Kg		99	66 - 142
Toluene	0.0500	0.05100		mg/Kg		102	74 - 130
Ethylbenzene	0.0500	0.05474		mg/Kg		109	80 - 130
m,p-Xylenes	0.0500	0.05188		mg/Kg		104	78 - 130
o-Xylene	0.0500	0.05489		mg/Kg		110	79 - 130

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

Lab Sample ID: LCSD 860-35425/4

Matrix: Solid

Analysis Batch: 35425

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	0.05105		mg/Kg		102	66 - 142	4	25
Toluene	0.0500	0.05156		mg/Kg		103	74 - 130	1	25
Ethylbenzene	0.0500	0.05594		mg/Kg		112	80 - 130	2	25
m,p-Xylenes	0.0500	0.05290		mg/Kg		106	78 - 130	2	25
o-Xylene	0.0500	0.05609		mg/Kg		112	79 - 130	2	25

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

Eurofins Xenco, Stafford

QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 860-17303-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-35668/1-A

Matrix: Solid

Analysis Batch: 35803

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35668

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:17	12/28/21 17:38	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:17	12/28/21 17:38	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:17	12/28/21 17:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		65 - 130				12/27/21 14:17	12/28/21 17:38	1
o-Terphenyl (Surr)	113		65 - 130				12/27/21 14:17	12/28/21 17:38	1

Lab Sample ID: LCS 860-35668/2-A

Matrix: Solid

Analysis Batch: 35803

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35668

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	994	1098		mg/Kg		110	70 - 135
Diesel Range Organics (Over C10-C28)	994	1138		mg/Kg		114	70 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	124		65 - 130				
o-Terphenyl (Surr)	110		65 - 130				

Lab Sample ID: LCSD 860-35668/3-A

Matrix: Solid

Analysis Batch: 35803

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35668

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	994	1125		mg/Kg		113	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	994	1186		mg/Kg		119	70 - 135	4	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	121		65 - 130						
o-Terphenyl (Surr)	108		65 - 130						

Lab Sample ID: 860-17303-1 MS

Matrix: Solid

Analysis Batch: 35803

Client Sample ID: Cell19-Square128-S-3-4-211214

Prep Type: Total/NA

Prep Batch: 35668

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

Eurofins Xenco, Stafford

QC Sample Results

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

Job ID: 860-17303-1

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

Lab Sample ID: 860-17303-1 MS

Matrix: Solid

Analysis Batch: 35803

Client Sample ID: Cell19-Square128-S-3-4-211214

Prep Type: Total/NA

Prep Batch: 35668

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

Lab Sample ID: 860-17303-1 MSD

Matrix: Solid

Analysis Batch: 35803

Client Sample ID: Cell19-Square128-S-3-4-211214

Prep Type: Total/NA

Prep Batch: 35668

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	21.6	U	1020	1159		mg/Kg	✱	113	70 - 135	1	35
Diesel Range Organics (Over C10-C28)	21.6	U	1020	1190		mg/Kg	✱	116	70 - 135	0	35

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

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-35181/28-A

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35181

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

Lab Sample ID: MB 860-35181/57-A

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35181

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

Lab Sample ID: LCS 860-35181/29-A

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35181

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

Lab Sample ID: LCS 860-35181/58-A

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35181

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

Eurofins Xenco, Stafford

QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 860-17303-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 860-35181/30-A

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35181

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

Lab Sample ID: LCSD 860-35181/59-A

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35181

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

Lab Sample ID: 860-17303-6 MS

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Cell20-Square170-S-3-4-211214

Prep Type: Total/NA

Prep Batch: 35181

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

Lab Sample ID: 860-17303-6 MSD

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Cell20-Square170-S-3-4-211214

Prep Type: Total/NA

Prep Batch: 35181

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

Eurofins Xenco, Stafford

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17303-1

Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 34665

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

Analysis Batch: 35424

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

Analysis Batch: 35425

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

GC Semi VOA

Prep Batch: 35668

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

Eurofins Xenco, Stafford

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17303-1

Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Prep Batch: 35668 (Continued)

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

Analysis Batch: 35803

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

HPLC/IC

Analysis Batch: 35123

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

Eurofins Xenco, Stafford

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17303-1

Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Analysis Batch: 35123 (Continued)

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

Prep Batch: 35181

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

General Chemistry

Analysis Batch: 34512

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

Eurofins Xenco, Stafford

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17303-1

Project/Site: Chevron - Jal Land Farm Soils

General Chemistry (Continued)

Analysis Batch: 34512 (Continued)

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

Eurofins Xenco, Stafford

Lab Chronicle

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

Job ID: 860-17303-1

Client Sample ID: Cell19-Square128-S-3-4-211214

Lab Sample ID: 860-17303-1

Date Collected: 12/14/21 09:10

Matrix: Solid

Date Received: 12/15/21 10:21

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

Client Sample ID: Cell19-Square128-S-3-4-211214

Lab Sample ID: 860-17303-1

Date Collected: 12/14/21 09:10

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 96.7

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

Client Sample ID: Cell19-Square27-S-3-4-211214

Lab Sample ID: 860-17303-2

Date Collected: 12/14/21 10:00

Matrix: Solid

Date Received: 12/15/21 10:21

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

Client Sample ID: Cell19-Square27-S-3-4-211214

Lab Sample ID: 860-17303-2

Date Collected: 12/14/21 10:00

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 92.9

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

Client Sample ID: Cell20-Square18-S-3-4-211214

Lab Sample ID: 860-17303-3

Date Collected: 12/14/21 10:30

Matrix: Solid

Date Received: 12/15/21 10:21

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

Eurofins Xenco, Stafford

Lab Chronicle

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

Job ID: 860-17303-1

Client Sample ID: Cell20-Square18-S-3-4-211214

Lab Sample ID: 860-17303-3

Date Collected: 12/14/21 10:30

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 87.3

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

Client Sample ID: Cell20-Square41-S-3-4-211214

Lab Sample ID: 860-17303-4

Date Collected: 12/14/21 10:45

Matrix: Solid

Date Received: 12/15/21 10:21

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

Client Sample ID: Cell20-Square41-S-3-4-211214

Lab Sample ID: 860-17303-4

Date Collected: 12/14/21 10:45

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 91.9

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

Client Sample ID: Cell20-Square14-S-3-4-211214

Lab Sample ID: 860-17303-5

Date Collected: 12/14/21 11:05

Matrix: Solid

Date Received: 12/15/21 10:21

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

Client Sample ID: Cell20-Square14-S-3-4-211214

Lab Sample ID: 860-17303-5

Date Collected: 12/14/21 11:05

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 94.0

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

Eurofins Xenco, Stafford

Lab Chronicle

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

Job ID: 860-17303-1

Client Sample ID: Cell20-Square170-S-3-4-211214

Lab Sample ID: 860-17303-6

Date Collected: 12/14/21 11:20

Matrix: Solid

Date Received: 12/15/21 10:21

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

Client Sample ID: Cell20-Square170-S-3-4-211214

Lab Sample ID: 860-17303-6

Date Collected: 12/14/21 11:20

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.04 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35424	12/23/21 14:21	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 20:55	T1S	XEN STF
Total/NA	Prep	300_Prep			5.03 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 08:25	ANP	XEN STF

Client Sample ID: Cell21-Square18-S-3-4-211214

Lab Sample ID: 860-17303-7

Date Collected: 12/14/21 11:50

Matrix: Solid

Date Received: 12/15/21 10:21

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

Client Sample ID: Cell21-Square18-S-3-4-211214

Lab Sample ID: 860-17303-7

Date Collected: 12/14/21 11:50

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 94.0

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

Client Sample ID: Cell21-Square37-S-3-4-211214

Lab Sample ID: 860-17303-8

Date Collected: 12/14/21 12:10

Matrix: Solid

Date Received: 12/15/21 10:21

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

Eurofins Xenco, Stafford

Lab Chronicle

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

Job ID: 860-17303-1

Client Sample ID: Cell21-Square37-S-3-4-211214

Lab Sample ID: 860-17303-8

Date Collected: 12/14/21 12:10

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35424	12/23/21 15:02	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 21:31	T1S	XEN STF
Total/NA	Prep	300_Prep			4.91 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 10:21	ANP	XEN STF

Client Sample ID: Cell21-Square117-S-3-4-211214

Lab Sample ID: 860-17303-9

Date Collected: 12/14/21 12:40

Matrix: Solid

Date Received: 12/15/21 10:21

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

Client Sample ID: Cell21-Square117-S-3-4-211214

Lab Sample ID: 860-17303-9

Date Collected: 12/14/21 12:40

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35424	12/23/21 15:22	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 21:49	T1S	XEN STF
Total/NA	Prep	300_Prep			4.92 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 10:34	ANP	XEN STF

Client Sample ID: Cell21-Square90-S-3-4-211214

Lab Sample ID: 860-17303-10

Date Collected: 12/14/21 12:55

Matrix: Solid

Date Received: 12/15/21 10:21

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

Client Sample ID: Cell21-Square90-S-3-4-211214

Lab Sample ID: 860-17303-10

Date Collected: 12/14/21 12:55

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 91.3

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

Eurofins Xenco, Stafford

Lab Chronicle

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

Job ID: 860-17303-1

Client Sample ID: Cell25-Square190-S-3-4-211214

Lab Sample ID: 860-17303-11

Date Collected: 12/14/21 13:20

Matrix: Solid

Date Received: 12/15/21 10:21

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

Client Sample ID: Cell25-Square190-S-3-4-211214

Lab Sample ID: 860-17303-11

Date Collected: 12/14/21 13:20

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 92.1

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

Client Sample ID: Cell25-Square176-S-3-4-211214

Lab Sample ID: 860-17303-12

Date Collected: 12/14/21 13:45

Matrix: Solid

Date Received: 12/15/21 10:21

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

Client Sample ID: Cell25-Square176-S-3-4-211214

Lab Sample ID: 860-17303-12

Date Collected: 12/14/21 13:45

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.04 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35424	12/23/21 16:24	CSP	XEN STF
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 22:42	T1S	XEN STF
Total/NA	Prep	300_Prep			5.09 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 11:13	ANP	XEN STF

Client Sample ID: Cell25-Square33-S-3-4-211214

Lab Sample ID: 860-17303-13

Date Collected: 12/14/21 14:15

Matrix: Solid

Date Received: 12/15/21 10:21

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

Eurofins Xenco, Stafford

Lab Chronicle

Client: ARCADIS U.S., Inc.

Job ID: 860-17303-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square33-S-3-4-211214

Lab Sample ID: 860-17303-13

Date Collected: 12/14/21 14:15

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	34665	12/16/21 21:50	AW	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35424	12/23/21 16:44	CSP	XEN STF
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 23:00	T1S	XEN STF
Total/NA	Prep	300_Prep			4.91 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 11:51	ANP	XEN STF

Client Sample ID: Cell25-Square70-S-3-4-211214

Lab Sample ID: 860-17303-14

Date Collected: 12/14/21 14:30

Matrix: Solid

Date Received: 12/15/21 10:21

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

Client Sample ID: Cell25-Square70-S-3-4-211214

Lab Sample ID: 860-17303-14

Date Collected: 12/14/21 14:30

Matrix: Solid

Date Received: 12/15/21 10:21

Percent Solids: 89.7

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

Laboratory References:

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

Eurofins Xenco, Stafford

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17303-1

Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Xenco, Stafford

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	1306	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Eurofins Xenco, Stafford

Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17303-1

Project/Site: Chevron - Jal Land Farm Soils

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

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

Eurofins Xenco, Stafford

Sample Summary

Client: ARCADIS U.S., Inc.

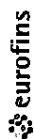
Job ID: 860-17303-1

Project/Site: Chevron - Jal Land Farm Soils

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

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

Chain of Custody Record



Environment: Testing
America

Client Information		Lab PM: Kuchadkar Sachin G		Carrier Tracking No(s):		COC No: 860-5911-2069.1	
Client Contact: Alison Schaffer		Phone: 432-999-2280		E-Mail: Sachin.Kuchadkar@Eurofinset.com		Page: 1 of 2	
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 Jai Land Farm Soils		Site:	
Purchase Order Requested		TAT Requested (days): Standard		Compliance Project: A Yes A No		Due Date Requested:	
PO #: 303-710-7537 (Tel)		WO #:		Project #: 86002103		SSOW#:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (In-water, suspended, on-water, on-soil)	Field Filtered Sample (Yes or No)	Preservation Code:
Cell 119 - Square 128-S-3-4-21214	12-14-21	0910	G	Solid			
Cell 119 - Square 27-S-3-4-21214	12-14-21	1000	G	Solid			
Cell 120 - Square 18-S-3-4-21214	12-14-21	1030	G	Solid			
Cell 120 - Square 41-S-3-4-21214	12-14-21	1045	G	Solid			
Cell 120 - Square 14-S-3-4-21214	12-14-21	1105	G	Solid			
Cell 120 - Square 170-S-3-4-21214	12-14-21	1120	G	Solid			
Cell 121 - Square 18-S-3-4-21214	12-14-21	1150	G	Solid			
Cell 121 - Square 37-S-3-4-21214	12-14-21	1210	G	Solid			
Cell 121 - Square 117-S-3-4-21214	12-14-21	1240	G	Solid			
Cell 121 - Square 90-S-3-4-21214	12-14-21	1255	G	Solid			
Cell 125 - Square 190-S-3-4-21214	12-14-21	1320	G	Solid			
Possible Hazard Identification		Poison B		Unknown		Radiological	
Non-Hazard		Flammable		Skin Irritant		Deliverable Requested: I II III IV Other (specify)	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Disposal By Lab		Archive For Months	
Special Instructions/Note:		Temp: 38 IR ID: HOU-223		C/F: +0.0		Corrected Temp: 3.8	
Total Number of Containers		X		X		X	
Special Instructions/Note:		X		X		X	
Preservation Codes:		A HCL		M Hexane		N None	
B NaOH		O Acetate		P Na2O4S		Q Na2SO3	
C Zn Acetate		R NaHSO4		S H2SO4		T TSP Dodecaldehyde	
D Nitric Acid		F MeOH		G Anhydrous		H Acetic Acid	
E NaOH		I Ice		J DI Water		K EDTA	
H Acetic Acid		L EDA		Other			
I Ice							
J DI Water							
K EDTA							
L EDA							
Other							
Analysis Requested		860-17303 Chain of Custody		Barcode			
Date Requested:		TAT Requested (days):		Compliance Project: A Yes A No		Due Date Requested:	
PO #:		WO #:		Project #:		SSOW#:	
Purchase Order Requested		TAT Requested (days):		Compliance Project: A Yes A No		Due Date Requested:	
PO #:		WO #:		Project #:		SSOW#:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (In-water, suspended, on-water, on-soil)	Field Filtered Sample (Yes or No)	Preservation Code:
Cell 119 - Square 128-S-3-4-21214	12-14-21	0910	G	Solid			
Cell 119 - Square 27-S-3-4-21214	12-14-21	1000	G	Solid			
Cell 120 - Square 18-S-3-4-21214	12-14-21	1030	G	Solid			
Cell 120 - Square 41-S-3-4-21214	12-14-21	1045	G	Solid			
Cell 120 - Square 14-S-3-4-21214	12-14-21	1105	G	Solid			
Cell 120 - Square 170-S-3-4-21214	12-14-21	1120	G	Solid			
Cell 121 - Square 18-S-3-4-21214	12-14-21	1150	G	Solid			
Cell 121 - Square 37-S-3-4-21214	12-14-21	1210	G	Solid			
Cell 121 - Square 117-S-3-4-21214	12-14-21	1240	G	Solid			
Cell 121 - Square 90-S-3-4-21214	12-14-21	1255	G	Solid			
Cell 125 - Square 190-S-3-4-21214	12-14-21	1320	G	Solid			
Possible Hazard Identification		Poison B		Unknown		Radiological	
Non-Hazard		Flammable		Skin Irritant		Deliverable Requested: I II III IV Other (specify)	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Disposal By Lab		Archive For Months	
Special Instructions/Note:		Temp: 38 IR ID: HOU-223		C/F: +0.0		Corrected Temp: 3.8	
Total Number of Containers		X		X		X	
Special Instructions/Note:		X		X		X	
Preservation Codes:		A HCL		M Hexane		N None	
B NaOH		O Acetate		P Na2O4S		Q Na2SO3	
C Zn Acetate		R NaHSO4		S H2SO4		T TSP Dodecaldehyde	
D Nitric Acid		F MeOH		G Anhydrous		H Acetic Acid	
E NaOH		I Ice		J DI Water		K EDTA	
H Acetic Acid		L EDA		Other			
I Ice							
J DI Water							
K EDTA							
L EDA							
Other							
Analysis Requested		860-17303 Chain of Custody		Barcode			
Date Requested:		TAT Requested (days):		Compliance Project: A Yes A No		Due Date Requested:	
PO #:		WO #:		Project #:		SSOW#:	
Purchase Order Requested		TAT Requested (days):		Compliance Project: A Yes A No		Due Date Requested:	
PO #:		WO #:		Project #:		SSOW#:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (In-water, suspended, on-water, on-soil)	Field Filtered Sample (Yes or No)	Preservation Code:
Cell 119 - Square 128-S-3-4-21214	12-14-21	0910	G	Solid			
Cell 119 - Square 27-S-3-4-21214	12-14-21	1000	G	Solid			
Cell 120 - Square 18-S-3-4-21214	12-14-21	1030	G	Solid			
Cell 120 - Square 41-S-3-4-21214	12-14-21	1045	G	Solid			
Cell 120 - Square 14-S-3-4-21214	12-14-21	1105	G	Solid			
Cell 120 - Square 170-S-3-4-21214	12-14-21	1120	G	Solid			
Cell 121 - Square 18-S-3-4-21214	12-14-21	1150	G	Solid			
Cell 121 - Square 37-S-3-4-21214	12-14-21	1210	G	Solid			
Cell 121 - Square 117-S-3-4-21214	12-14-21	1240	G	Solid			
Cell 121 - Square 90-S-3-4-21214	12-14-21	1255	G	Solid			
Cell 125 - Square 190-S-3-4-21214	12-14-21	1320	G	Solid			
Possible Hazard Identification		Poison B		Unknown		Radiological	
Non-Hazard		Flammable		Skin Irritant		Deliverable Requested: I II III IV Other (specify)	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Disposal By Lab		Archive For Months	
Special Instructions/Note:		Temp: 38 IR ID: HOU-223		C/F: +0.0		Corrected Temp: 3.8	
Total Number of Containers		X		X		X	
Special Instructions/Note:		X		X		X	
Preservation Codes:		A HCL		M Hexane		N None	
B NaOH		O Acetate		P Na2O4S		Q Na2SO3	
C Zn Acetate		R NaHSO4		S H2SO4		T TSP Dodecaldehyde	
D Nitric Acid		F MeOH		G Anhydrous		H Acetic Acid	
E NaOH		I Ice		J DI Water		K EDTA	
H Acetic Acid		L EDA		Other			
I Ice							
J DI Water							
K EDTA							
L EDA							
Other							
Analysis Requested		860-17303 Chain of Custody		Barcode			
Date Requested:		TAT Requested (days):		Compliance Project: A Yes A No		Due Date Requested:	
PO #:		WO #:		Project #:		SSOW#:	
Purchase Order Requested		TAT Requested (days):		Compliance Project: A Yes A No		Due Date Requested:	
PO #:		WO #:		Project #:		SSOW#:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (In-water, suspended, on-water, on-soil)	Field Filtered Sample (Yes or No)	Preservation Code:
Cell 119 - Square 128-S-3-4-21214	12-14-21	0910	G	Solid			
Cell 119 - Square 27-S-3-4-21214	12-14-21	1000	G	Solid			
Cell 120 - Square 18-S-3-4-21214	12-14-21	1030	G	Solid			
Cell 120 - Square 41-S-3-4-21214	12-14-21	1045	G	Solid			
Cell 120 - Square 14-S-3-4-21214	12-14-21	1105	G	Solid			
Cell 120 - Square 170-S-3-4-21214	12-14-21	1120	G	Solid			
Cell 121 - Square 18-S-3-4-21214	12-14-21	1150	G	Solid			
Cell 121 - Square 37-S-3-4-21214	12-14-21	1210	G	Solid			
Cell 121 - Square 117-S-3-4-21214	12-14-21	1240	G	Solid			
Cell 121 - Square 90-S-3-4-21214	12-14-21	1255	G	Solid			
Cell 125 - Square 190-S-3-4-21214	12-14-21	1320	G	Solid			
Possible Hazard Identification		Poison B		Unknown		Radiological	
Non-Hazard		Flammable		Skin Irritant		Deliverable Requested: I II III IV Other (specify)	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Disposal By Lab		Archive For Months	
Special Instructions/Note:		Temp: 38 IR ID: HOU-223		C/F: +0.0		Corrected Temp: 3.8	
Total Number of Containers		X		X		X	
Special Instructions/Note:		X		X		X	
Preservation Codes:		A HCL		M Hexane		N None	
B NaOH		O Acetate		P Na2O4S		Q Na2SO3	
C Zn Acetate		R NaHSO4		S H2SO4		T TSP Dodecaldehyde	
D Nitric Acid		F MeOH		G Anhydrous		H Acetic Acid	
E NaOH		I Ice		J DI Water		K EDTA	
H Acetic Acid		L EDA		Other			
I Ice							
J DI Water							
K EDTA							
L EDA							
Other							
Analysis Requested		860-17303 Chain of Custody		Barcode			
Date Requested:		TAT Requested (days):		Compliance Project: A Yes A No		Due Date Requested:	
PO #:		WO #:		Project #:		SSOW#:	
Purchase Order Requested		TAT Requested (days):		Compliance Project: A Yes A No		Due Date Requested:	
PO #:		WO #:		Project #:		SSOW#:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (In-water, suspended, on-water, on-soil)	Field Filtered Sample (Yes or No)	Preservation Code:
Cell 119 - Square 128-S-3-4-21214	12-14-21	0910	G	Solid			
Cell 119 - Square 27-S-3-4-21214	12-14-21	1000	G	Solid			
Cell 120 - Square 18-S-3-4-21214	12-14-21	1030	G	Solid			
Cell 120 - Square 41-S-3-4-21214	12-14-21	1045	G	Solid			
Cell 120 - Square 14-S-3-4-21214	12-14-21	1105	G	Solid			
Cell 120 - Square 170-S-3-4-21214	12-14-21	1120	G	Solid			
Cell 121 - Square 18-S-3-4-21214	12-14-21	1150	G	Solid			
Cell 121 - Square 37-S-3-4-21214	12-14-21	1210	G	Solid			
Cell 121 - Square 117-S-3-4-21214	12-14-21	1240	G	Solid			
Cell 121 - Square 90-S-3-4-21214	12-14-21	1255	G	Solid			
Cell 125 - Square 190-S-3-4-21214	12-14-21	1320	G	Solid			
Possible Hazard Identification		Poison B		Unknown		Radiological	
Non-Hazard		Flammable		Skin Irritant		Deliverable Requested: I II III IV Other (specify)	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Disposal By Lab		Archive For Months	
Special Instructions/Note:		Temp: 38 IR ID: HOU-223		C/F: +0.0		Corrected Temp: 3.8	
Total Number of Containers		X		X		X	
Special Instructions/Note:		X		X		X	
Preservation Codes:		A HCL		M Hexane		N None	
B NaOH		O Acetate		P Na2O4S		Q Na2SO3	
C Zn Acetate		R NaHSO4		S H2SO4		T TSP Dodecaldehyde	
D Nitric Acid		F MeOH		G Anhydrous		H Acetic Acid	
E NaOH		I Ice		J DI Water		K EDTA	
H Acetic Acid		L EDA		Other			
I Ice							
J DI Water							
K EDTA							
L EDA							
Other							
Analysis Requested		860-17303 Chain of Custody		Barcode			
Date Requested:		TAT Requested (days):		Compliance Project: A Yes A No		Due Date Requested:	
PO #:		WO #:		Project #:		SSOW#:	
Purchase Order Requested		TAT Requested (days):		Compliance Project: A Yes A No		Due Date Requested:	
PO #:		WO #:		Project #:		SSOW#:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (In-water, suspended, on-water, on-soil)	Field Filtered Sample (Yes or No)	Preservation Code:
Cell 119 - Square 128-S-3-4-21214	12-14-21	0910	G	Solid			
Cell 119 - Square 27-S-3-4-21214	12-14-21	1000	G	Solid			
Cell 120 - Square 18-S-3-4-21214	12-14-						

afford

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

Chain of Custody Record



**Environment Testing
America**

[illegible]

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 860-17303-1

Login Number: 17303

List Number: 1

Creator: Palmar, Pedro

List Source: Eurofins Xenco, Stafford

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 860-17303-1

Login Number: 17303

List Source: Eurofins Xenco, Stafford

List Number: 2

Creator: Palmar, Pedro

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 860-17465-1

Client Project/Site: Chevron - Jal Land Farm Soils

For:

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

Attn: Alison Schaffer

A handwritten signature in black ink, reading "Sachin Kudchadkar".

Authorized for release by:
12/29/2021 6:45:46 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 860-17465-1

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	16
Lab Chronicle	19
Certification Summary	22
Method Summary	23
Sample Summary	24
Chain of Custody	25
Receipt Checklists	26

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 860-17465-1

Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Eurofins Xenco, Stafford

Case Narrative

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

Job ID: 860-17465-1

Job ID: 860-17465-1**Laboratory: Eurofins Xenco, Stafford****Narrative****Job Narrative
860-17465-1****Receipt**

The samples were received on 12/16/2021 10:29 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

GC/MS VOA

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

GC Semi VOA

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

HPLC/IC

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

General Chemistry

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

Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17465-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square210-S-3-4-211215

Lab Sample ID: 860-17465-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.20	J	10.9	3.87	mg/Kg	1	✱	9056A	Total/NA
Fluoride	2.28	J	5.46	1.09	mg/Kg	1	✱	9056A	Total/NA
Sulfate	17.0		10.9	4.72	mg/Kg	1	✱	9056A	Total/NA

Client Sample ID: Cell26-Square183-S-3-4-211215

Lab Sample ID: 860-17465-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.71	J	11.0	3.91	mg/Kg	1	✱	9056A	Total/NA
Fluoride	4.71	J	5.52	1.10	mg/Kg	1	✱	9056A	Total/NA
Sulfate	20.8		11.0	4.77	mg/Kg	1	✱	9056A	Total/NA

Client Sample ID: Cell26-Square74-S-3-4-211215

Lab Sample ID: 860-17465-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.17	J	12.8	4.51	mg/Kg	1	✱	9056A	Total/NA
Fluoride	2.96	J	6.38	1.28	mg/Kg	1	✱	9056A	Total/NA
Sulfate	49.5		12.8	5.51	mg/Kg	1	✱	9056A	Total/NA

Client Sample ID: Cell26-Square8-S-3-4-211215

Lab Sample ID: 860-17465-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.64	J	13.4	4.76	mg/Kg	1	✱	9056A	Total/NA
Fluoride	8.74		6.72	1.34	mg/Kg	1	✱	9056A	Total/NA
Sulfate	62.1		13.4	5.81	mg/Kg	1	✱	9056A	Total/NA

Client Sample ID: Cell26-Treatment-S-3-4-211215

Lab Sample ID: 860-17465-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (Over C10-C28) - RA	125		50.4	21.3	mg/Kg	1	✱	8015B NM	Total/NA
Oil Range Organics (Over C28-C36) - RA	85.4		50.4	21.3	mg/Kg	1	✱	8015B NM	Total/NA
Chloride	5.35	J	10.3	3.66	mg/Kg	1	✱	9056A	Total/NA
Sulfate	24.9		10.3	4.47	mg/Kg	1	✱	9056A	Total/NA

Client Sample ID: Cell25-Treatment-S-3-4-211215

Lab Sample ID: 860-17465-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.33	J	10.1	3.57	mg/Kg	1	✱	9056A	Total/NA
Fluoride	1.88	J	5.04	1.01	mg/Kg	1	✱	9056A	Total/NA
Sulfate	7.56	J	10.1	4.35	mg/Kg	1	✱	9056A	Total/NA

Client Sample ID: Cell21-Treatment-S-3-4-211215

Lab Sample ID: 860-17465-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (Over C10-C28)	66.3		51.5	21.7	mg/Kg	1	✱	8015B NM	Total/NA
Oil Range Organics (Over C28-C36)	35.2	J	51.5	21.7	mg/Kg	1	✱	8015B NM	Total/NA
Chloride	5.95	J	10.1	3.59	mg/Kg	1	✱	9056A	Total/NA
Fluoride	4.59	J	5.07	1.01	mg/Kg	1	✱	9056A	Total/NA
Sulfate	83.4		10.1	4.38	mg/Kg	1	✱	9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17465-1

Client Sample ID: Cell26-Square210-S-3-4-211215

Lab Sample ID: 860-17465-1

Date Collected: 12/15/21 08:40

Matrix: Solid

Date Received: 12/16/21 10:29

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000228	U	0.00110	0.000228	mg/Kg	✱	12/20/21 16:30	12/23/21 16:18	1
Toluene	0.00110	U	0.00552	0.00110	mg/Kg	✱	12/20/21 16:30	12/23/21 16:18	1
Ethylbenzene	0.000370	U	0.00110	0.000370	mg/Kg	✱	12/20/21 16:30	12/23/21 16:18	1
m,p-Xylenes	0.000883	U	0.00221	0.000883	mg/Kg	✱	12/20/21 16:30	12/23/21 16:18	1
o-Xylene	0.00109	U	0.00110	0.00109	mg/Kg	✱	12/20/21 16:30	12/23/21 16:18	1
Xylenes, Total	0.00109	U	0.00221	0.00109	mg/Kg	✱	12/20/21 16:30	12/23/21 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	126		56 - 150	12/20/21 16:30	12/23/21 16:18	1
4-Bromofluorobenzene (Surr)	96		68 - 152	12/20/21 16:30	12/23/21 16:18	1
Dibromofluoromethane (Surr)	112		53 - 142	12/20/21 16:30	12/23/21 16:18	1
Toluene-d8 (Surr)	96		70 - 130	12/20/21 16:30	12/23/21 16:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.4	U	55.4	23.4	mg/Kg	✱	12/27/21 14:17	12/28/21 23:36	1
Diesel Range Organics (Over C10-C28)	23.4	U	55.4	23.4	mg/Kg	✱	12/27/21 14:17	12/28/21 23:36	1
Oil Range Organics (Over C28-C36)	23.4	U	55.4	23.4	mg/Kg	✱	12/27/21 14:17	12/28/21 23:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		65 - 130	12/27/21 14:17	12/28/21 23:36	1
o-Terphenyl (Surr)	113		65 - 130	12/27/21 14:17	12/28/21 23:36	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.20	J	10.9	3.87	mg/Kg	✱	12/21/21 19:01	12/22/21 12:17	1
Fluoride	2.28	J	5.46	1.09	mg/Kg	✱	12/21/21 19:01	12/22/21 12:17	1
Sulfate	17.0		10.9	4.72	mg/Kg	✱	12/21/21 19:01	12/22/21 12:17	1

Client Sample ID: Cell26-Square183-S-3-4-211215

Lab Sample ID: 860-17465-2

Date Collected: 12/15/21 09:10

Matrix: Solid

Date Received: 12/16/21 10:29

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000231	U	0.00111	0.000231	mg/Kg	✱	12/20/21 16:30	12/23/21 16:39	1
Toluene	0.00111	U	0.00557	0.00111	mg/Kg	✱	12/20/21 16:30	12/23/21 16:39	1
Ethylbenzene	0.000374	U	0.00111	0.000374	mg/Kg	✱	12/20/21 16:30	12/23/21 16:39	1
m,p-Xylenes	0.000892	U	0.00223	0.000892	mg/Kg	✱	12/20/21 16:30	12/23/21 16:39	1
o-Xylene	0.00110	U	0.00111	0.00110	mg/Kg	✱	12/20/21 16:30	12/23/21 16:39	1
Xylenes, Total	0.00110	U	0.00223	0.00110	mg/Kg	✱	12/20/21 16:30	12/23/21 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	136		56 - 150	12/20/21 16:30	12/23/21 16:39	1
4-Bromofluorobenzene (Surr)	97		68 - 152	12/20/21 16:30	12/23/21 16:39	1
Dibromofluoromethane (Surr)	112		53 - 142	12/20/21 16:30	12/23/21 16:39	1
Toluene-d8 (Surr)	94		70 - 130	12/20/21 16:30	12/23/21 16:39	1

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17465-1

Client Sample ID: Cell26-Square183-S-3-4-211215

Lab Sample ID: 860-17465-2

Date Collected: 12/15/21 09:10

Matrix: Solid

Date Received: 12/16/21 10:29

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.1	U	54.7	23.1	mg/Kg	✧	12/27/21 14:17	12/28/21 01:15	1
Diesel Range Organics (Over C10-C28)	23.1	U	54.7	23.1	mg/Kg	✧	12/27/21 14:17	12/28/21 01:15	1
Oil Range Organics (Over C28-C36)	23.1	U	54.7	23.1	mg/Kg	✧	12/27/21 14:17	12/28/21 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		65 - 130	12/27/21 14:17	12/28/21 01:15	1
o-Terphenyl (Surr)	115		65 - 130	12/27/21 14:17	12/28/21 01:15	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.71	J	11.0	3.91	mg/Kg	✧	12/21/21 19:01	12/22/21 12:30	1
Fluoride	4.71	J	5.52	1.10	mg/Kg	✧	12/21/21 19:01	12/22/21 12:30	1
Sulfate	20.8		11.0	4.77	mg/Kg	✧	12/21/21 19:01	12/22/21 12:30	1

Client Sample ID: Cell26-Square74-S-3-4-211215

Lab Sample ID: 860-17465-3

Date Collected: 12/15/21 09:45

Matrix: Solid

Date Received: 12/16/21 10:29

Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000263	U	0.00127	0.000263	mg/Kg	✧	12/20/21 16:30	12/23/21 17:00	1
Toluene	0.00127	U	0.00636	0.00127	mg/Kg	✧	12/20/21 16:30	12/23/21 17:00	1
Ethylbenzene	0.000427	U	0.00127	0.000427	mg/Kg	✧	12/20/21 16:30	12/23/21 17:00	1
m,p-Xylenes	0.00102	U	0.00255	0.00102	mg/Kg	✧	12/20/21 16:30	12/23/21 17:00	1
o-Xylene	0.00125	U	0.00127	0.00125	mg/Kg	✧	12/20/21 16:30	12/23/21 17:00	1
Xylenes, Total	0.00125	U	0.00255	0.00125	mg/Kg	✧	12/20/21 16:30	12/23/21 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		56 - 150	12/20/21 16:30	12/23/21 17:00	1
4-Bromofluorobenzene (Surr)	102		68 - 152	12/20/21 16:30	12/23/21 17:00	1
Dibromofluoromethane (Surr)	120		53 - 142	12/20/21 16:30	12/23/21 17:00	1
Toluene-d8 (Surr)	96		70 - 130	12/20/21 16:30	12/23/21 17:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.0	U	64.0	27.0	mg/Kg	✧	12/27/21 14:17	12/28/21 01:35	1
Diesel Range Organics (Over C10-C28)	27.0	U	64.0	27.0	mg/Kg	✧	12/27/21 14:17	12/28/21 01:35	1
Oil Range Organics (Over C28-C36)	27.0	U	64.0	27.0	mg/Kg	✧	12/27/21 14:17	12/28/21 01:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		65 - 130	12/27/21 14:17	12/28/21 01:35	1
o-Terphenyl (Surr)	111		65 - 130	12/27/21 14:17	12/28/21 01:35	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.17	J	12.8	4.51	mg/Kg	✧	12/21/21 19:01	12/22/21 12:43	1
Fluoride	2.96	J	6.38	1.28	mg/Kg	✧	12/21/21 19:01	12/22/21 12:43	1
Sulfate	49.5		12.8	5.51	mg/Kg	✧	12/21/21 19:01	12/22/21 12:43	1

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17465-1

Client Sample ID: Cell26-Square8-S-3-4-211215

Lab Sample ID: 860-17465-4

Date Collected: 12/15/21 10:15

Matrix: Solid

Date Received: 12/16/21 10:29

Percent Solids: 75.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000278	U	0.00134	0.000278	mg/Kg	✱	12/20/21 16:30	12/23/21 17:20	1
Toluene	0.00134	U	0.00672	0.00134	mg/Kg	✱	12/20/21 16:30	12/23/21 17:20	1
Ethylbenzene	0.000451	U	0.00134	0.000451	mg/Kg	✱	12/20/21 16:30	12/23/21 17:20	1
m,p-Xylenes	0.00108	U	0.00269	0.00108	mg/Kg	✱	12/20/21 16:30	12/23/21 17:20	1
o-Xylene	0.00132	U	0.00134	0.00132	mg/Kg	✱	12/20/21 16:30	12/23/21 17:20	1
Xylenes, Total	0.00132	U	0.00269	0.00132	mg/Kg	✱	12/20/21 16:30	12/23/21 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	135		56 - 150	12/20/21 16:30	12/23/21 17:20	1
4-Bromofluorobenzene (Surr)	95		68 - 152	12/20/21 16:30	12/23/21 17:20	1
Dibromofluoromethane (Surr)	117		53 - 142	12/20/21 16:30	12/23/21 17:20	1
Toluene-d8 (Surr)	99		70 - 130	12/20/21 16:30	12/23/21 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	28.2	U	66.9	28.2	mg/Kg	✱	12/27/21 14:17	12/28/21 01:55	1
Diesel Range Organics (Over C10-C28)	28.2	U	66.9	28.2	mg/Kg	✱	12/27/21 14:17	12/28/21 01:55	1
Oil Range Organics (Over C28-C36)	28.2	U	66.9	28.2	mg/Kg	✱	12/27/21 14:17	12/28/21 01:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		65 - 130	12/27/21 14:17	12/28/21 01:55	1
o-Terphenyl (Surr)	117		65 - 130	12/27/21 14:17	12/28/21 01:55	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.64	J	13.4	4.76	mg/Kg	✱	12/21/21 19:01	12/22/21 12:56	1
Fluoride	8.74		6.72	1.34	mg/Kg	✱	12/21/21 19:01	12/22/21 12:56	1
Sulfate	62.1		13.4	5.81	mg/Kg	✱	12/21/21 19:01	12/22/21 12:56	1

Client Sample ID: Cell26-Treatment-S-3-4-211215

Lab Sample ID: 860-17465-5

Date Collected: 12/15/21 11:55

Matrix: Solid

Date Received: 12/16/21 10:29

Percent Solids: 98.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.3	U	50.4	21.3	mg/Kg	✱	12/27/21 14:17	12/28/21 14:01	1
Diesel Range Organics (Over C10-C28)	125		50.4	21.3	mg/Kg	✱	12/27/21 14:17	12/28/21 14:01	1
Oil Range Organics (Over C28-C36)	85.4		50.4	21.3	mg/Kg	✱	12/27/21 14:17	12/28/21 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		65 - 130	12/27/21 14:17	12/28/21 14:01	1
o-Terphenyl (Surr)	113		65 - 130	12/27/21 14:17	12/28/21 14:01	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.35	J	10.3	3.66	mg/Kg	✱	12/21/21 19:01	12/22/21 13:34	1
Fluoride	1.03	U	5.17	1.03	mg/Kg	✱	12/21/21 19:01	12/22/21 13:34	1
Sulfate	24.9		10.3	4.47	mg/Kg	✱	12/21/21 19:01	12/22/21 13:34	1

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17465-1

Client Sample ID: Cell25-Treatment-S-3-4-211215

Lab Sample ID: 860-17465-6

Date Collected: 12/15/21 12:55

Matrix: Solid

Date Received: 12/16/21 10:29

Percent Solids: 97.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.4	U	50.8	21.4	mg/Kg	☼	12/27/21 14:17	12/28/21 02:15	1
Diesel Range Organics (Over C10-C28)	21.4	U	50.8	21.4	mg/Kg	☼	12/27/21 14:17	12/28/21 02:15	1
Oil Range Organics (Over C28-C36)	21.4	U	50.8	21.4	mg/Kg	☼	12/27/21 14:17	12/28/21 02:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		65 - 130				12/27/21 14:17	12/28/21 02:15	1
o-Terphenyl (Surr)	115		65 - 130				12/27/21 14:17	12/28/21 02:15	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.33	J	10.1	3.57	mg/Kg	☼	12/21/21 19:01	12/22/21 13:47	1
Fluoride	1.88	J	5.04	1.01	mg/Kg	☼	12/21/21 19:01	12/22/21 13:47	1
Sulfate	7.56	J	10.1	4.35	mg/Kg	☼	12/21/21 19:01	12/22/21 13:47	1

Client Sample ID: Cell21-Treatment-S-3-4-211215

Lab Sample ID: 860-17465-7

Date Collected: 12/15/21 14:00

Matrix: Solid

Date Received: 12/16/21 10:29

Percent Solids: 96.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.7	U	51.5	21.7	mg/Kg	☼	12/27/21 14:22	12/28/21 03:58	1
Diesel Range Organics (Over C10-C28)	66.3		51.5	21.7	mg/Kg	☼	12/27/21 14:22	12/28/21 03:58	1
Oil Range Organics (Over C28-C36)	35.2	J	51.5	21.7	mg/Kg	☼	12/27/21 14:22	12/28/21 03:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		65 - 130				12/27/21 14:22	12/28/21 03:58	1
o-Terphenyl (Surr)	113		65 - 130				12/27/21 14:22	12/28/21 03:58	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.95	J	10.1	3.59	mg/Kg	☼	12/21/21 19:01	12/22/21 14:26	1
Fluoride	4.59	J	5.07	1.01	mg/Kg	☼	12/21/21 19:01	12/22/21 14:26	1
Sulfate	83.4		10.1	4.38	mg/Kg	☼	12/21/21 19:01	12/22/21 14:26	1

Eurofins Xenco, Stafford

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17465-1

Project/Site: Chevron - Jal Land Farm Soils

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (56-150)	BFB (68-152)	DBFM (53-142)	TOL (70-130)
860-17465-1	Cell26-Square210-S-3-4-211215	126	96	112	96
860-17465-2	Cell26-Square183-S-3-4-211215	136	97	112	94
860-17465-3	Cell26-Square74-S-3-4-211215	118	102	120	96
860-17465-4	Cell26-Square8-S-3-4-211215	135	95	117	99
LCS 860-35454/3	Lab Control Sample	99	100	111	99
LCSD 860-35454/4	Lab Control Sample Dup	100	101	108	100
MB 860-35454/8	Method Blank	118	100	110	95
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
TOL = Toluene-d8 (Surr)					

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (65-130)	OTPH1 (65-130)
860-17465-1	Cell26-Square210-S-3-4-211215	105	113
860-17465-2	Cell26-Square183-S-3-4-211215	117	115
860-17465-3	Cell26-Square74-S-3-4-211215	112	111
860-17465-4	Cell26-Square8-S-3-4-211215	119	117
860-17465-5 - RA	Cell26-Treatment-S-3-4-211215	105	113
860-17465-6	Cell25-Treatment-S-3-4-211215	117	115
860-17465-7	Cell21-Treatment-S-3-4-211215	102	113
860-17465-7 MS	Cell21-Treatment-S-3-4-211215	114	94
860-17465-7 MSD	Cell21-Treatment-S-3-4-211215	107	96
LCS 860-35668/2-A	Lab Control Sample	124	110
LCS 860-35671/2-A	Lab Control Sample	112	108
LCSD 860-35668/3-A	Lab Control Sample Dup	121	108
LCSD 860-35671/3-A	Lab Control Sample Dup	105	102
MB 860-35668/1-A	Method Blank	104	113
MB 860-35671/1-A	Method Blank	99	110
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl (Surr)			

Eurofins Xenco, Stafford

QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 860-17465-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-35454/8

Matrix: Solid

Analysis Batch: 35454

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			12/23/21 14:15	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			12/23/21 14:15	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			12/23/21 14:15	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			12/23/21 14:15	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			12/23/21 14:15	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			12/23/21 14:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		56 - 150		12/23/21 14:15	1
4-Bromofluorobenzene (Surr)	100		68 - 152		12/23/21 14:15	1
Dibromofluoromethane (Surr)	110		53 - 142		12/23/21 14:15	1
Toluene-d8 (Surr)	95		70 - 130		12/23/21 14:15	1

Lab Sample ID: LCS 860-35454/3

Matrix: Solid

Analysis Batch: 35454

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	0.04019		mg/Kg		80	66 - 142
Toluene	0.0500	0.04133		mg/Kg		83	74 - 130
Ethylbenzene	0.0500	0.04424		mg/Kg		88	80 - 130
m,p-Xylenes	0.0500	0.04379		mg/Kg		88	78 - 130
o-Xylene	0.0500	0.04509		mg/Kg		90	79 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		56 - 150
4-Bromofluorobenzene (Surr)	100		68 - 152
Dibromofluoromethane (Surr)	111		53 - 142
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCSD 860-35454/4

Matrix: Solid

Analysis Batch: 35454

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	0.04589		mg/Kg		92	66 - 142	13	25
Toluene	0.0500	0.04792		mg/Kg		96	74 - 130	15	25
Ethylbenzene	0.0500	0.05063		mg/Kg		101	80 - 130	13	25
m,p-Xylenes	0.0500	0.05071		mg/Kg		101	78 - 130	15	25
o-Xylene	0.0500	0.05023		mg/Kg		100	79 - 130	11	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		56 - 150
4-Bromofluorobenzene (Surr)	101		68 - 152
Dibromofluoromethane (Surr)	108		53 - 142
Toluene-d8 (Surr)	100		70 - 130

Eurofins Xenco, Stafford

QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 860-17465-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-35668/1-A

Matrix: Solid

Analysis Batch: 35803

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35668

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:17	12/28/21 17:38	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:17	12/28/21 17:38	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:17	12/28/21 17:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		65 - 130				12/27/21 14:17	12/28/21 17:38	1
o-Terphenyl (Surr)	113		65 - 130				12/27/21 14:17	12/28/21 17:38	1

Lab Sample ID: LCS 860-35668/2-A

Matrix: Solid

Analysis Batch: 35803

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35668

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	994	1098		mg/Kg		110	70 - 135
Diesel Range Organics (Over C10-C28)	994	1138		mg/Kg		114	70 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	124		65 - 130				
o-Terphenyl (Surr)	110		65 - 130				

Lab Sample ID: LCSD 860-35668/3-A

Matrix: Solid

Analysis Batch: 35803

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35668

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	994	1125		mg/Kg		113	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	994	1186		mg/Kg		119	70 - 135	4	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	121		65 - 130						
o-Terphenyl (Surr)	108		65 - 130						

Lab Sample ID: MB 860-35671/1-A

Matrix: Solid

Analysis Batch: 35606

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:22	12/28/21 02:46	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:22	12/28/21 02:46	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:22	12/28/21 02:46	1

Eurofins Xenco, Stafford

QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 860-17465-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-35671/1-A

Matrix: Solid

Analysis Batch: 35606

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35671

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		65 - 130	12/27/21 14:22	12/28/21 02:46	1
o-Terphenyl (Surr)	110		65 - 130	12/27/21 14:22	12/28/21 02:46	1

Lab Sample ID: LCS 860-35671/2-A

Matrix: Solid

Analysis Batch: 35606

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35671

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			994	1031		mg/Kg		104	70 - 135		
Diesel Range Organics (Over C10-C28)			994	1077		mg/Kg		108	70 - 135		

	LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	112		65 - 130			
o-Terphenyl (Surr)	108		65 - 130			

Lab Sample ID: LCSD 860-35671/3-A

Matrix: Solid

Analysis Batch: 35606

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35671

			Spike	LCSD	LCSD				%Rec.		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			994	1050		mg/Kg		106	70 - 135	2	35	
Diesel Range Organics (Over C10-C28)			994	1013		mg/Kg		102	70 - 135	6	35	

	LCSD	LCSD				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	105		65 - 130			
o-Terphenyl (Surr)	102		65 - 130			

Lab Sample ID: 860-17465-7 MS

Matrix: Solid

Analysis Batch: 35606

Client Sample ID: Cell21-Treatment-S-3-4-211215

Prep Type: Total/NA

Prep Batch: 35671

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	21.7	U	1020	1061		mg/Kg	✱	104	70 - 135		
Diesel Range Organics (Over C10-C28)	66.3		1020	1156		mg/Kg	✱	107	70 - 135		

	MS	MS				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	114		65 - 130			
o-Terphenyl (Surr)	94		65 - 130			

Eurofins Xenco, Stafford

QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 860-17465-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: 860-17465-7 MSD

Matrix: Solid

Analysis Batch: 35606

Client Sample ID: Cell21-Treatment-S-3-4-211215

Prep Type: Total/NA

Prep Batch: 35671

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	21.7	U	1030	1140		mg/Kg	☼	111	70 - 135	7	35
Diesel Range Organics (Over C10-C28)	66.3		1030	1144		mg/Kg	☼	105	70 - 135	1	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	107		65 - 130								
o-Terphenyl (Surr)	96		65 - 130								

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-35181/57-A

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35181

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		12/21/21 19:01	12/22/21 09:17	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		12/21/21 19:01	12/22/21 09:17	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		12/21/21 19:01	12/22/21 09:17	1

Lab Sample ID: LCS 860-35181/58-A

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35181

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	100	101.6		mg/Kg		102	80 - 120		
Fluoride	100	104.3		mg/Kg		104	80 - 120		
Sulfate	100	99.30		mg/Kg		99	80 - 120		

Lab Sample ID: LCSD 860-35181/59-A

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35181

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	100.5		mg/Kg		100	80 - 120	1	20
Fluoride	100	103.9		mg/Kg		104	80 - 120	0	20
Sulfate	100	98.76		mg/Kg		99	80 - 120	1	20

Lab Sample ID: 860-17465-4 MS

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Cell26-Square8-S-3-4-211215

Prep Type: Total/NA

Prep Batch: 35181

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	5.64	J	134	136.8		mg/Kg	☼	98	80 - 120		
Fluoride	8.74		134	142.4		mg/Kg	☼	100	80 - 120		
Sulfate	62.1		134	197.2		mg/Kg	☼	101	80 - 120		

Eurofins Xenco, Stafford

QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 860-17465-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: 860-17465-4 MSD

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Cell26-Square8-S-3-4-211215

Prep Type: Total/NA

Prep Batch: 35181

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.64	J	131	133.6		mg/Kg	☼	98	80 - 120	2	20
Fluoride	8.74		131	139.3		mg/Kg	☼	99	80 - 120	2	20
Sulfate	62.1		131	193.0		mg/Kg	☼	100	80 - 120	2	20

Eurofins Xenco, Stafford

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17465-1

Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 35035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-1	Cell26-Square210-S-3-4-211215	Total/NA	Solid	5030C	
860-17465-2	Cell26-Square183-S-3-4-211215	Total/NA	Solid	5030C	
860-17465-3	Cell26-Square74-S-3-4-211215	Total/NA	Solid	5030C	
860-17465-4	Cell26-Square8-S-3-4-211215	Total/NA	Solid	5030C	

Analysis Batch: 35454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-1	Cell26-Square210-S-3-4-211215	Total/NA	Solid	8260C	35035
860-17465-2	Cell26-Square183-S-3-4-211215	Total/NA	Solid	8260C	35035
860-17465-3	Cell26-Square74-S-3-4-211215	Total/NA	Solid	8260C	35035
860-17465-4	Cell26-Square8-S-3-4-211215	Total/NA	Solid	8260C	35035
MB 860-35454/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-35454/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-35454/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC Semi VOA

Analysis Batch: 35606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-7	Cell21-Treatment-S-3-4-211215	Total/NA	Solid	8015B NM	35671
MB 860-35671/1-A	Method Blank	Total/NA	Solid	8015B NM	35671
LCS 860-35671/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35671
LCSD 860-35671/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35671
860-17465-7 MS	Cell21-Treatment-S-3-4-211215	Total/NA	Solid	8015B NM	35671
860-17465-7 MSD	Cell21-Treatment-S-3-4-211215	Total/NA	Solid	8015B NM	35671

Prep Batch: 35668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-1	Cell26-Square210-S-3-4-211215	Total/NA	Solid	8015NM Prep	
860-17465-2	Cell26-Square183-S-3-4-211215	Total/NA	Solid	8015NM Prep	
860-17465-3	Cell26-Square74-S-3-4-211215	Total/NA	Solid	8015NM Prep	
860-17465-4	Cell26-Square8-S-3-4-211215	Total/NA	Solid	8015NM Prep	
860-17465-5 - RA	Cell26-Treatment-S-3-4-211215	Total/NA	Solid	8015NM Prep	
860-17465-6	Cell25-Treatment-S-3-4-211215	Total/NA	Solid	8015NM Prep	
MB 860-35668/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-35668/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-35668/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 35671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-7	Cell21-Treatment-S-3-4-211215	Total/NA	Solid	8015NM Prep	
MB 860-35671/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-35671/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-35671/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
860-17465-7 MS	Cell21-Treatment-S-3-4-211215	Total/NA	Solid	8015NM Prep	
860-17465-7 MSD	Cell21-Treatment-S-3-4-211215	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-2	Cell26-Square183-S-3-4-211215	Total/NA	Solid	8015B NM	35668
860-17465-3	Cell26-Square74-S-3-4-211215	Total/NA	Solid	8015B NM	35668

Eurofins Xenco, Stafford

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17465-1

Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Analysis Batch: 35711 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-4	Cell26-Square8-S-3-4-211215	Total/NA	Solid	8015B NM	35668
860-17465-6	Cell25-Treatment-S-3-4-211215	Total/NA	Solid	8015B NM	35668

Analysis Batch: 35803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-1	Cell26-Square210-S-3-4-211215	Total/NA	Solid	8015B NM	35668
860-17465-5 - RA	Cell26-Treatment-S-3-4-211215	Total/NA	Solid	8015B NM	35668
MB 860-35668/1-A	Method Blank	Total/NA	Solid	8015B NM	35668
LCS 860-35668/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35668
LCSD 860-35668/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35668

HPLC/IC

Analysis Batch: 35123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-1	Cell26-Square210-S-3-4-211215	Total/NA	Solid	9056A	35181
860-17465-2	Cell26-Square183-S-3-4-211215	Total/NA	Solid	9056A	35181
860-17465-3	Cell26-Square74-S-3-4-211215	Total/NA	Solid	9056A	35181
860-17465-4	Cell26-Square8-S-3-4-211215	Total/NA	Solid	9056A	35181
860-17465-5	Cell26-Treatment-S-3-4-211215	Total/NA	Solid	9056A	35181
860-17465-6	Cell25-Treatment-S-3-4-211215	Total/NA	Solid	9056A	35181
860-17465-7	Cell21-Treatment-S-3-4-211215	Total/NA	Solid	9056A	35181
MB 860-35181/57-A	Method Blank	Total/NA	Solid	9056A	35181
LCS 860-35181/58-A	Lab Control Sample	Total/NA	Solid	9056A	35181
LCSD 860-35181/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	35181
860-17465-4 MS	Cell26-Square8-S-3-4-211215	Total/NA	Solid	9056A	35181
860-17465-4 MSD	Cell26-Square8-S-3-4-211215	Total/NA	Solid	9056A	35181

Prep Batch: 35181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-1	Cell26-Square210-S-3-4-211215	Total/NA	Solid	300_Prep	
860-17465-2	Cell26-Square183-S-3-4-211215	Total/NA	Solid	300_Prep	
860-17465-3	Cell26-Square74-S-3-4-211215	Total/NA	Solid	300_Prep	
860-17465-4	Cell26-Square8-S-3-4-211215	Total/NA	Solid	300_Prep	
860-17465-5	Cell26-Treatment-S-3-4-211215	Total/NA	Solid	300_Prep	
860-17465-6	Cell25-Treatment-S-3-4-211215	Total/NA	Solid	300_Prep	
860-17465-7	Cell21-Treatment-S-3-4-211215	Total/NA	Solid	300_Prep	
MB 860-35181/57-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-35181/58-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-35181/59-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-17465-4 MS	Cell26-Square8-S-3-4-211215	Total/NA	Solid	300_Prep	
860-17465-4 MSD	Cell26-Square8-S-3-4-211215	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 34907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-1	Cell26-Square210-S-3-4-211215	Total/NA	Solid	Moisture - 2540	
860-17465-2	Cell26-Square183-S-3-4-211215	Total/NA	Solid	Moisture - 2540	
860-17465-3	Cell26-Square74-S-3-4-211215	Total/NA	Solid	Moisture - 2540	
860-17465-4	Cell26-Square8-S-3-4-211215	Total/NA	Solid	Moisture - 2540	
860-17465-5	Cell26-Treatment-S-3-4-211215	Total/NA	Solid	Moisture - 2540	

Eurofins Xenco, Stafford

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17465-1

Project/Site: Chevron - Jal Land Farm Soils

General Chemistry (Continued)

Analysis Batch: 34907 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17465-6	Cell25-Treatment-S-3-4-211215	Total/NA	Solid	Moisture - 2540	
860-17465-7	Cell21-Treatment-S-3-4-211215	Total/NA	Solid	Moisture - 2540	
MB 860-34907/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Lab Chronicle

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

Job ID: 860-17465-1

Client Sample ID: Cell26-Square210-S-3-4-211215

Lab Sample ID: 860-17465-1

Date Collected: 12/15/21 08:40

Matrix: Solid

Date Received: 12/16/21 10:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell26-Square210-S-3-4-211215

Lab Sample ID: 860-17465-1

Date Collected: 12/15/21 08:40

Matrix: Solid

Date Received: 12/16/21 10:29

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	35035	12/20/21 16:30	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35454	12/23/21 16:18	KLV	XEN STF
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35803	12/28/21 23:36	T1S	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 12:17	ANP	XEN STF

Client Sample ID: Cell26-Square183-S-3-4-211215

Lab Sample ID: 860-17465-2

Date Collected: 12/15/21 09:10

Matrix: Solid

Date Received: 12/16/21 10:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell26-Square183-S-3-4-211215

Lab Sample ID: 860-17465-2

Date Collected: 12/15/21 09:10

Matrix: Solid

Date Received: 12/16/21 10:29

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.98 g	5 mL	35035	12/20/21 16:30	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35454	12/23/21 16:39	KLV	XEN STF
Total/NA	Prep	8015NM Prep			10.14 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35711	12/28/21 01:15	T1S	XEN STF
Total/NA	Prep	300_Prep			5.03 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 12:30	ANP	XEN STF

Client Sample ID: Cell26-Square74-S-3-4-211215

Lab Sample ID: 860-17465-3

Date Collected: 12/15/21 09:45

Matrix: Solid

Date Received: 12/16/21 10:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Eurofins Xenco, Stafford

Lab Chronicle

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

Job ID: 860-17465-1

Client Sample ID: Cell26-Square74-S-3-4-211215

Lab Sample ID: 860-17465-3

Date Collected: 12/15/21 09:45

Matrix: Solid

Date Received: 12/16/21 10:29

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	35035	12/20/21 16:30	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35454	12/23/21 17:00	KLV	XEN STF
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35711	12/28/21 01:35	T1S	XEN STF
Total/NA	Prep	300_Prep			5.04 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 12:43	ANP	XEN STF

Client Sample ID: Cell26-Square8-S-3-4-211215

Lab Sample ID: 860-17465-4

Date Collected: 12/15/21 10:15

Matrix: Solid

Date Received: 12/16/21 10:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell26-Square8-S-3-4-211215

Lab Sample ID: 860-17465-4

Date Collected: 12/15/21 10:15

Matrix: Solid

Date Received: 12/16/21 10:29

Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.96 g	5 mL	35035	12/20/21 16:30	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	35454	12/23/21 17:20	KLV	XEN STF
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35711	12/28/21 01:55	T1S	XEN STF
Total/NA	Prep	300_Prep			4.96 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 12:56	ANP	XEN STF

Client Sample ID: Cell26-Treatment-S-3-4-211215

Lab Sample ID: 860-17465-5

Date Collected: 12/15/21 11:55

Matrix: Solid

Date Received: 12/16/21 10:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell26-Treatment-S-3-4-211215

Lab Sample ID: 860-17465-5

Date Collected: 12/15/21 11:55

Matrix: Solid

Date Received: 12/16/21 10:29

Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep	RA		10.09 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM	RA	1			35803	12/28/21 14:01	T1S	XEN STF
Total/NA	Prep	300_Prep			4.92 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 13:34	ANP	XEN STF

Eurofins Xenco, Stafford

Lab Chronicle

Client: ARCADIS U.S., Inc.

Job ID: 860-17465-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Treatment-S-3-4-211215

Lab Sample ID: 860-17465-6

Date Collected: 12/15/21 12:55

Matrix: Solid

Date Received: 12/16/21 10:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell25-Treatment-S-3-4-211215

Lab Sample ID: 860-17465-6

Date Collected: 12/15/21 12:55

Matrix: Solid

Date Received: 12/16/21 10:29

Percent Solids: 97.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	35668	12/27/21 14:17	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35711	12/28/21 02:15	T1S	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 13:47	ANP	XEN STF

Client Sample ID: Cell21-Treatment-S-3-4-211215

Lab Sample ID: 860-17465-7

Date Collected: 12/15/21 14:00

Matrix: Solid

Date Received: 12/16/21 10:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell21-Treatment-S-3-4-211215

Lab Sample ID: 860-17465-7

Date Collected: 12/15/21 14:00

Matrix: Solid

Date Received: 12/16/21 10:29

Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35671	12/27/21 14:22	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35606	12/28/21 03:58	T1S	XEN STF
Total/NA	Prep	300_Prep			5.09 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 14:26	ANP	XEN STF

Laboratory References:

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

Eurofins Xenco, Stafford

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17465-1

Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Xenco, Stafford

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	1306	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Eurofins Xenco, Stafford

Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17465-1

Project/Site: Chevron - Jal Land Farm Soils

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

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

Eurofins Xenco, Stafford

Sample Summary

Client: ARCADIS U.S., Inc.

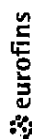
Job ID: 860-17465-1

Project/Site: Chevron - Jal Land Farm Soils

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-17465-1	Cell26-Square210-S-3-4-211215	Solid	12/15/21 08:40	12/16/21 10:29
860-17465-2	Cell26-Square183-S-3-4-211215	Solid	12/15/21 09:10	12/16/21 10:29
860-17465-3	Cell26-Square74-S-3-4-211215	Solid	12/15/21 09:45	12/16/21 10:29
860-17465-4	Cell26-Square8-S-3-4-211215	Solid	12/15/21 10:15	12/16/21 10:29
860-17465-5	Cell26-Treatment-S-3-4-211215	Solid	12/15/21 11:55	12/16/21 10:29
860-17465-6	Cell25-Treatment-S-3-4-211215	Solid	12/15/21 12:55	12/16/21 10:29
860-17465-7	Cell21-Treatment-S-3-4-211215	Solid	12/15/21 14:00	12/16/21 10:29

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

Chain of Custody Record



**Environment Testing
America**

Client Information Client Contact: Allison Schaffner Company: ARCADIS U.S. Inc. Address: 830 Plaza Drive Suite 100 City: Highlands Ranch State Zip: CO, 80129-2377 Phone: 303-710-7537 (Tel) Email: Allison.Schaffner@arcadis.com Project Name: Chevron - Jal Land Farm Soils Site:		Due Date Requested: TAT Requested (days): <u>Standard</u> Compliance Project: ☐ Yes ☒ No PO #: <u>303-710-7537 (Tel)</u> WO #: Project #: 86002103 SSOW#:		Date Requested: TAT Requested (days): <u>Standard</u> Compliance Project: ☐ Yes ☒ No PO #: <u>303-710-7537 (Tel)</u> WO #: Project #: 86002103 SSOW#:		Due Date Requested: TAT Requested (days): <u>Standard</u> Compliance Project: ☐ Yes ☒ No PO #: <u>303-710-7537 (Tel)</u> WO #: Project #: 86002103 SSOW#:		Due Date Requested: TAT Requested (days): <u>Standard</u> Compliance Project: ☐ Yes ☒ No PO #: <u>303-710-7537 (Tel)</u> WO #: Project #: 86002103 SSOW#:		Due Date Requested: TAT Requested (days): <u>Standard</u> Compliance Project: ☐ Yes ☒ No PO #: <u>303-710-7537 (Tel)</u> WO #: Project #: 86002103 SSOW#:			
Sample Identification Cell 26 - Square 210-S-3-4-211215 Cell 26 - Square 183-S-3-4-211215 Cell 26 - Square 74-S-3-4-211215 Cell 26 - Square 8-S-3-4-211215 Cell 26 - Treatment-S-6-211215 Cell 25 - Treatment-S-6-211215 Cell 21 - Treatment-S-6-211215		Sample Date 12-15-21 12-15-21 12-15-21 12-15-21 12-15-21 12-15-21 12-15-21		Sample Time 0840 0910 0945 1015 1155 1255 1400		Sample Type (C=comp, G=grab) G G G G C C C		Matrix (Wet, Dry, Solid, Liquid, Gas, Other) Solid Solid Solid Solid Solid Solid Solid		Field Filtered Sample (Yes or No) X X X X X X X		Field Filtered Sample (Yes or No) X X X X X X X	
Sample Identification Cell 26 - Square 210-S-3-4-211215 Cell 26 - Square 183-S-3-4-211215 Cell 26 - Square 74-S-3-4-211215 Cell 26 - Square 8-S-3-4-211215 Cell 26 - Treatment-S-6-211215 Cell 25 - Treatment-S-6-211215 Cell 21 - Treatment-S-6-211215		Sample Date 12-15-21 12-15-21 12-15-21 12-15-21 12-15-21 12-15-21 12-15-21		Sample Time 0840 0910 0945 1015 1155 1255 1400		Sample Type (C=comp, G=grab) G G G G C C C		Matrix (Wet, Dry, Solid, Liquid, Gas, Other) Solid Solid Solid Solid Solid Solid Solid		Field Filtered Sample (Yes or No) X X X X X X X		Field Filtered Sample (Yes or No) X X X X X X X	
Sample Identification Cell 26 - Square 210-S-3-4-211215 Cell 26 - Square 183-S-3-4-211215 Cell 26 - Square 74-S-3-4-211215 Cell 26 - Square 8-S-3-4-211215 Cell 26 - Treatment-S-6-211215 Cell 25 - Treatment-S-6-211215 Cell 21 - Treatment-S-6-211215		Sample Date 12-15-21 12-15-21 12-15-21 12-15-21 12-15-21 12-15-21 12-15-21		Sample Time 0840 0910 0945 1015 1155 1255 1400		Sample Type (C=comp, G=grab) G G G G C C C		Matrix (Wet, Dry, Solid, Liquid, Gas, Other) Solid Solid Solid Solid Solid Solid Solid		Field Filtered Sample (Yes or No) X X X X X X X		Field Filtered Sample (Yes or No) X X X X X X X	
Sample Identification Cell 26 - Square 210-S-3-4-211215 Cell 26 - Square 183-S-3-4-211215 Cell 26 - Square 74-S-3-4-211215 Cell 26 - Square 8-S-3-4-211215 Cell 26 - Treatment-S-6-211215 Cell 25 - Treatment-S-6-211215 Cell 21 - Treatment-S-6-211215		Sample Date 12-15-21 12-15-21 12-15-21 12-15-21 12-15-21 12-15-21 12-15-21		Sample Time 0840 0910 0945 1015 1155 1255 1400		Sample Type (C=comp, G=grab) G G G G C C C		Matrix (Wet, Dry, Solid, Liquid, Gas, Other) Solid Solid Solid Solid Solid Solid Solid		Field Filtered Sample (Yes or No) X X X X X X X		Field Filtered Sample (Yes or No) X X X X X X X	
Sample Identification Cell 26 - Square 210-S-3-4-211215 Cell 26 - Square 183-S-3-4-211215 Cell 26 - Square 74-S-3-4-211215 Cell 26 - Square 8-S-3-4-211215 Cell 26 - Treatment-S-6-211215 Cell 25 - Treatment-S-6-211215 Cell 21 - Treatment-S-6-211215		Sample Date 12-15-21 12-15-21 12-15-21 12-15-21 12-15-21 12-15-21 12-15-21		Sample Time 0840 0910 0945 1015 1155 1255 1400		Sample Type (C=comp, G=grab) G G G G C C C		Matrix (Wet, Dry, Solid, Liquid, Gas, Other) Solid Solid Solid Solid Solid Solid Solid		Field Filtered Sample (Yes or No) X X X X X X X		Field Filtered Sample (Yes or No) X X X X X X X	
Sample Identification Cell 26 - Square 210-S-3-4-211215 Cell 26 - Square 183-S-3-4-211215 Cell 26 - Square 74-S-3-4-211215 Cell 26 - Square 8-S-3-4-211215 Cell 26 - Treatment-S-6-211215 Cell 25 - Treatment-S-6-211215 Cell 21 - Treatment-S-6-211215		Sample Date 12-15-21 12-15-21 12-15-21 12-15-21 12-15-21 12-15-21 12-15-21		Sample Time 0840 0910 0945 1015 1155 1255									

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 860-17465-1

Login Number: 17465

List Number: 1

Creator: Palmar, Pedro

List Source: Eurofins Xenco, Stafford

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 860-17465-1

Login Number: 17465

List Source: Eurofins Xenco, Stafford

List Number: 2

Creator: Palmar, Pedro

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 860-17532-1

Client Project/Site: Chevron - Jal Land Farm Soils

For:

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

Attn: Alison Schaffer

A handwritten signature in black ink, reading "Sachin Kudchadkar".

Authorized for release by:
12/29/2021 7:01:51 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 860-17532-1

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	11
Lab Chronicle	12
Certification Summary	14
Method Summary	15
Sample Summary	16
Chain of Custody	17
Receipt Checklists	18

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 860-17532-1

Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Eurofins Xenco, Stafford

Case Narrative

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

Job ID: 860-17532-1

Job ID: 860-17532-1**Laboratory: Eurofins Xenco, Stafford****Narrative****Job Narrative
860-17532-1****Receipt**

The samples were received on 12/17/2021 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

GC Semi VOA

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

HPLC/IC

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

General Chemistry

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

Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17532-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Treatment-S-6-211216

Lab Sample ID: 860-17532-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	12.8		10.4	3.68	mg/Kg	1		✱	9056A	Total/NA
Fluoride	3.59	J	5.20	1.04	mg/Kg	1		✱	9056A	Total/NA
Sulfate	22.2		10.4	4.49	mg/Kg	1		✱	9056A	Total/NA

Client Sample ID: Cell 18-Treatment-S-6-211216

Lab Sample ID: 860-17532-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	5.33	J	10.3	3.65	mg/Kg	1		✱	9056A	Total/NA
Fluoride	5.45		5.16	1.03	mg/Kg	1		✱	9056A	Total/NA
Sulfate	92.2		10.3	4.45	mg/Kg	1		✱	9056A	Total/NA

Client Sample ID: Cell 19-Treatment-S-6-211216

Lab Sample ID: 860-17532-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Diesel Range Organics (Over C10-C28)	22.0	J	50.7	21.4	mg/Kg	1		✱	8015B NM	Total/NA
Chloride	6.90	J	10.2	3.61	mg/Kg	1		✱	9056A	Total/NA
Fluoride	4.95	J	5.09	1.02	mg/Kg	1		✱	9056A	Total/NA
Sulfate	139		10.2	4.40	mg/Kg	1		✱	9056A	Total/NA

Client Sample ID: Cell 20-Treatment-S-6-211216

Lab Sample ID: 860-17532-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	7.66	J	12.8	4.54	mg/Kg	1		✱	9056A	Total/NA
Fluoride	3.97	J	6.42	1.28	mg/Kg	1		✱	9056A	Total/NA
Sulfate	59.5		12.8	5.54	mg/Kg	1		✱	9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Stafford

Client Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 860-17532-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Treatment-S-6-211216

Lab Sample ID: 860-17532-1

Date Collected: 12/16/21 08:35

Matrix: Solid

Date Received: 12/17/21 10:25

Percent Solids: 98.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.6	U	51.2	21.6	mg/Kg	☼	12/27/21 14:22	12/28/21 04:53	1
Diesel Range Organics (Over C10-C28)	21.6	U	51.2	21.6	mg/Kg	☼	12/27/21 14:22	12/28/21 04:53	1
Oil Range Organics (Over C28-C36)	21.6	U	51.2	21.6	mg/Kg	☼	12/27/21 14:22	12/28/21 04:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		65 - 130	12/27/21 14:22	12/28/21 04:53	1
o-Terphenyl (Surr)	107		65 - 130	12/27/21 14:22	12/28/21 04:53	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.8		10.4	3.68	mg/Kg	☼	12/21/21 19:01	12/22/21 14:38	1
Fluoride	3.59	J	5.20	1.04	mg/Kg	☼	12/21/21 19:01	12/22/21 14:38	1
Sulfate	22.2		10.4	4.49	mg/Kg	☼	12/21/21 19:01	12/22/21 14:38	1

Client Sample ID: Cell 18-Treatment-S-6-211216

Lab Sample ID: 860-17532-2

Date Collected: 12/16/21 09:30

Matrix: Solid

Date Received: 12/17/21 10:25

Percent Solids: 97.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.7	U	51.4	21.7	mg/Kg	☼	12/27/21 14:22	12/28/21 05:11	1
Diesel Range Organics (Over C10-C28)	21.7	U	51.4	21.7	mg/Kg	☼	12/27/21 14:22	12/28/21 05:11	1
Oil Range Organics (Over C28-C36)	21.7	U	51.4	21.7	mg/Kg	☼	12/27/21 14:22	12/28/21 05:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		65 - 130	12/27/21 14:22	12/28/21 05:11	1
o-Terphenyl (Surr)	107		65 - 130	12/27/21 14:22	12/28/21 05:11	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.33	J	10.3	3.65	mg/Kg	☼	12/21/21 19:01	12/22/21 14:51	1
Fluoride	5.45		5.16	1.03	mg/Kg	☼	12/21/21 19:01	12/22/21 14:51	1
Sulfate	92.2		10.3	4.45	mg/Kg	☼	12/21/21 19:01	12/22/21 14:51	1

Client Sample ID: Cell 19-Treatment-S-6-211216

Lab Sample ID: 860-17532-3

Date Collected: 12/16/21 10:20

Matrix: Solid

Date Received: 12/17/21 10:25

Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.4	U	50.7	21.4	mg/Kg	☼	12/27/21 14:22	12/28/21 05:29	1
Diesel Range Organics (Over C10-C28)	22.0	J	50.7	21.4	mg/Kg	☼	12/27/21 14:22	12/28/21 05:29	1
Oil Range Organics (Over C28-C36)	21.4	U	50.7	21.4	mg/Kg	☼	12/27/21 14:22	12/28/21 05:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		65 - 130	12/27/21 14:22	12/28/21 05:29	1
o-Terphenyl (Surr)	113		65 - 130	12/27/21 14:22	12/28/21 05:29	1

Eurofins Xenco, Stafford

Client Sample Results

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

Job ID: 860-17532-1

Client Sample ID: Cell 19-Treatment-S-6-211216

Lab Sample ID: 860-17532-3

Date Collected: 12/16/21 10:20

Matrix: Solid

Date Received: 12/17/21 10:25

Percent Solids: 97.8

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.90	J	10.2	3.61	mg/Kg	☼	12/21/21 19:01	12/22/21 15:04	1
Fluoride	4.95	J	5.09	1.02	mg/Kg	☼	12/21/21 19:01	12/22/21 15:04	1
Sulfate	139		10.2	4.40	mg/Kg	☼	12/21/21 19:01	12/22/21 15:04	1

Client Sample ID: Cell 20-Treatment-S-6-211216

Lab Sample ID: 860-17532-4

Date Collected: 12/16/21 11:00

Matrix: Solid

Date Received: 12/17/21 10:25

Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.2	U	64.5	27.2	mg/Kg	☼	12/27/21 14:22	12/28/21 05:47	1
Diesel Range Organics (Over C10-C28)	27.2	U	64.5	27.2	mg/Kg	☼	12/27/21 14:22	12/28/21 05:47	1
Oil Range Organics (Over C28-C36)	27.2	U	64.5	27.2	mg/Kg	☼	12/27/21 14:22	12/28/21 05:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		65 - 130				12/27/21 14:22	12/28/21 05:47	1
o-Terphenyl (Surr)	112		65 - 130				12/27/21 14:22	12/28/21 05:47	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.66	J	12.8	4.54	mg/Kg	☼	12/21/21 19:01	12/22/21 15:17	1
Fluoride	3.97	J	6.42	1.28	mg/Kg	☼	12/21/21 19:01	12/22/21 15:17	1
Sulfate	59.5		12.8	5.54	mg/Kg	☼	12/21/21 19:01	12/22/21 15:17	1

Eurofins Xenco, Stafford

Surrogate Summary

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

Job ID: 860-17532-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(65-130)	(65-130)
860-17532-1	Cell 17-Treatment-S-6-211216	98	107
860-17532-2	Cell 18-Treatment-S-6-211216	98	107
860-17532-3	Cell 19-Treatment-S-6-211216	103	113
860-17532-4	Cell 20-Treatment-S-6-211216	101	112
LCS 860-35671/2-A	Lab Control Sample	112	108
LCSD 860-35671/3-A	Lab Control Sample Dup	105	102
MB 860-35671/1-A	Method Blank	99	110

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl (Surr)

QC Sample Results

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

Job ID: 860-17532-1

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

Lab Sample ID: MB 860-35671/1-A

Matrix: Solid

Analysis Batch: 35606

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:22	12/28/21 02:46	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:22	12/28/21 02:46	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		12/27/21 14:22	12/28/21 02:46	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		65 - 130				12/27/21 14:22	12/28/21 02:46	1
o-Terphenyl (Surr)	110		65 - 130				12/27/21 14:22	12/28/21 02:46	1

Lab Sample ID: LCS 860-35671/2-A

Matrix: Solid

Analysis Batch: 35606

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35671

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	994	1031		mg/Kg		104	70 - 135
Diesel Range Organics (Over C10-C28)	994	1077		mg/Kg		108	70 - 135
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	112		65 - 130				
o-Terphenyl (Surr)	108		65 - 130				

Lab Sample ID: LCSD 860-35671/3-A

Matrix: Solid

Analysis Batch: 35606

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35671

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	994	1050		mg/Kg		106	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	994	1013		mg/Kg		102	70 - 135	6	35
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	105		65 - 130						
o-Terphenyl (Surr)	102		65 - 130						

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-35181/57-A

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35181

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		12/21/21 19:01	12/22/21 09:17	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		12/21/21 19:01	12/22/21 09:17	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		12/21/21 19:01	12/22/21 09:17	1

Eurofins Xenco, Stafford

QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 860-17532-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 860-35181/58-A

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35181

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	101.6		mg/Kg		102	80 - 120
Fluoride	100	104.3		mg/Kg		104	80 - 120
Sulfate	100	99.30		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 860-35181/59-A

Matrix: Solid

Analysis Batch: 35123

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35181

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	100.5		mg/Kg		100	80 - 120	1	20
Fluoride	100	103.9		mg/Kg		104	80 - 120	0	20
Sulfate	100	98.76		mg/Kg		99	80 - 120	1	20

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17532-1

Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Analysis Batch: 35606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17532-1	Cell 17-Treatment-S-6-211216	Total/NA	Solid	8015B NM	35671
860-17532-2	Cell 18-Treatment-S-6-211216	Total/NA	Solid	8015B NM	35671
860-17532-3	Cell 19-Treatment-S-6-211216	Total/NA	Solid	8015B NM	35671
860-17532-4	Cell 20-Treatment-S-6-211216	Total/NA	Solid	8015B NM	35671
MB 860-35671/1-A	Method Blank	Total/NA	Solid	8015B NM	35671
LCS 860-35671/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35671
LCSD 860-35671/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35671

Prep Batch: 35671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17532-1	Cell 17-Treatment-S-6-211216	Total/NA	Solid	8015NM Prep	
860-17532-2	Cell 18-Treatment-S-6-211216	Total/NA	Solid	8015NM Prep	
860-17532-3	Cell 19-Treatment-S-6-211216	Total/NA	Solid	8015NM Prep	
860-17532-4	Cell 20-Treatment-S-6-211216	Total/NA	Solid	8015NM Prep	
MB 860-35671/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-35671/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-35671/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Analysis Batch: 35123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17532-1	Cell 17-Treatment-S-6-211216	Total/NA	Solid	9056A	35181
860-17532-2	Cell 18-Treatment-S-6-211216	Total/NA	Solid	9056A	35181
860-17532-3	Cell 19-Treatment-S-6-211216	Total/NA	Solid	9056A	35181
860-17532-4	Cell 20-Treatment-S-6-211216	Total/NA	Solid	9056A	35181
MB 860-35181/57-A	Method Blank	Total/NA	Solid	9056A	35181
LCS 860-35181/58-A	Lab Control Sample	Total/NA	Solid	9056A	35181
LCSD 860-35181/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	35181

Prep Batch: 35181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17532-1	Cell 17-Treatment-S-6-211216	Total/NA	Solid	300_Prep	
860-17532-2	Cell 18-Treatment-S-6-211216	Total/NA	Solid	300_Prep	
860-17532-3	Cell 19-Treatment-S-6-211216	Total/NA	Solid	300_Prep	
860-17532-4	Cell 20-Treatment-S-6-211216	Total/NA	Solid	300_Prep	
MB 860-35181/57-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-35181/58-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-35181/59-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 34907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-17532-1	Cell 17-Treatment-S-6-211216	Total/NA	Solid	Moisture - 2540	
860-17532-2	Cell 18-Treatment-S-6-211216	Total/NA	Solid	Moisture - 2540	
860-17532-3	Cell 19-Treatment-S-6-211216	Total/NA	Solid	Moisture - 2540	
860-17532-4	Cell 20-Treatment-S-6-211216	Total/NA	Solid	Moisture - 2540	
MB 860-34907/1	Method Blank	Total/NA	Solid	Moisture - 2540	
860-17532-3 DU	Cell 19-Treatment-S-6-211216	Total/NA	Solid	Moisture - 2540	

Eurofins Xenco, Stafford

Lab Chronicle

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

Job ID: 860-17532-1

Client Sample ID: Cell 17-Treatment-S-6-211216

Lab Sample ID: 860-17532-1

Date Collected: 12/16/21 08:35

Matrix: Solid

Date Received: 12/17/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell 17-Treatment-S-6-211216

Lab Sample ID: 860-17532-1

Date Collected: 12/16/21 08:35

Matrix: Solid

Date Received: 12/17/21 10:25

Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	35671	12/27/21 14:22	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35606	12/28/21 04:53	T1S	XEN STF
Total/NA	Prep	300_Prep			4.91 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 14:38	ANP	XEN STF

Client Sample ID: Cell 18-Treatment-S-6-211216

Lab Sample ID: 860-17532-2

Date Collected: 12/16/21 09:30

Matrix: Solid

Date Received: 12/17/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell 18-Treatment-S-6-211216

Lab Sample ID: 860-17532-2

Date Collected: 12/16/21 09:30

Matrix: Solid

Date Received: 12/17/21 10:25

Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	35671	12/27/21 14:22	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35606	12/28/21 05:11	T1S	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 14:51	ANP	XEN STF

Client Sample ID: Cell 19-Treatment-S-6-211216

Lab Sample ID: 860-17532-3

Date Collected: 12/16/21 10:20

Matrix: Solid

Date Received: 12/17/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell 19-Treatment-S-6-211216

Lab Sample ID: 860-17532-3

Date Collected: 12/16/21 10:20

Matrix: Solid

Date Received: 12/17/21 10:25

Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	35671	12/27/21 14:22	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35606	12/28/21 05:29	T1S	XEN STF
Total/NA	Prep	300_Prep			5.02 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 15:04	ANP	XEN STF

Eurofins Xenco, Stafford

Lab Chronicle

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

Job ID: 860-17532-1

Client Sample ID: Cell 20-Treatment-S-6-211216

Lab Sample ID: 860-17532-4

Date Collected: 12/16/21 11:00

Matrix: Solid

Date Received: 12/17/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture - 2540		1			34907	12/20/21 08:19	BM	XEN STF

Client Sample ID: Cell 20-Treatment-S-6-211216

Lab Sample ID: 860-17532-4

Date Collected: 12/16/21 11:00

Matrix: Solid

Date Received: 12/17/21 10:25

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	35671	12/27/21 14:22	IS	XEN STF
Total/NA	Analysis	8015B NM		1			35606	12/28/21 05:47	T1S	XEN STF
Total/NA	Prep	300_Prep			5.06 g	50 mL	35181	12/21/21 19:01	ANP	XEN STF
Total/NA	Analysis	9056A		1			35123	12/22/21 15:17	ANP	XEN STF

Laboratory References:

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

Eurofins Xenco, Stafford

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17532-1

Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Xenco, Stafford

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	1306	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Eurofins Xenco, Stafford

Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 860-17532-1

Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
9056A	Anions, Ion Chromatography	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

Eurofins Xenco, Stafford

Sample Summary

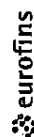
Client: ARCADIS U.S., Inc.

Job ID: 860-17532-1

Project/Site: Chevron - Jal Land Farm Soils

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-17532-1	Cell 17-Treatment-S-6-211216	Solid	12/16/21 08:35	12/17/21 10:25
860-17532-2	Cell 18-Treatment-S-6-211216	Solid	12/16/21 09:30	12/17/21 10:25
860-17532-3	Cell 19-Treatment-S-6-211216	Solid	12/16/21 10:20	12/17/21 10:25
860-17532-4	Cell 20-Treatment-S-6-211216	Solid	12/16/21 11:00	12/17/21 10:25

Chain of Custody Record



Environment Testing America

[illegible]

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 860-17532-1

Login Number: 17532

List Source: Eurofins Xenco, Stafford

List Number: 1

Creator: Rubio, Yuri

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 860-17532-1

Login Number: 17532

List Source: Eurofins Xenco, Stafford

List Number: 2

Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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: Tuesday, August 30, 2022 2:22 PM
To: amarti@chevron.com
Cc: Rice, Steve
Subject: NM2-012 Chevron Jal Landfarm 2021 Annual Report review
Attachments: 2022 0830 NM2-012 Chevron 2021 Annual Report Review signed.pdf

Mr. Martinez,

Please see the attached. It is OCD's review of the 2021 Annual Report for the Jal Landfarm, under 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



August 30, 2022

Armando Martinez,
Chevron USA Inc.
354 State Highway 38
Questa, New Mexico 87556-04698
amarti@chevron.com

**RE: 2021 Annual Report Review
Chevron USA Inc. (OGRID 4323)
Jal Landfarm, Permit NM2-012
Location: W/2 of Section 17, Township 24 South, Range 36 East, NMPM
Lea County, New Mexico**

Dear Mr. Martinez:

The Oil Conservation Division (OCD) has completed its review of Chevron Environmental Management Company's (CEMC) 2021 Annual Report, dated July 12, 2022. The review has resulted in the discovery of a release response action plan in which Chevron states that sent to OCD but was never received.

In the last sentence of Section 3.4, Release Response Sampling, Chevron states "Results of the vadose zone sampling in December 2021 showed that DRO and chloride were detected at concentrations greater than the SDL or background soil concentration in Cells 17 (chloride), 18 (chloride), 19 (chloride), 20 (chloride), 21 (DRO), and 25 (chloride); therefore, the release response process was initiated. *CEMC notified the NMOCD of the exceedances, and the release response sampling event was performed in January 2022.*" On January 19, 2022, OCD received an emailed notice from Steve Rice (Arcadis) regarding the releases detected during the December 2022 semi-annual routine vadose zone sampling event.

In the Summary, Section 5 of the 2021 Annual Report, Chevron further clarifies the following: "Vadose zone analytical results indicated a potential release of DRO and/or chloride into the vadose zone of active cells 17, 18, 19, 20, 25, and 26; therefore, release response sampling events were subsequently performed in October 2021 and January 2022. *After each release response sampling event, Arcadis (on behalf of CEMC) submitted a Release Response Sampling Results and Action Plan to the NMOCD, summarizing the vadose zone and release response sampling results, and the release response action plan to address the potential release.*" OCD brings this to Chevron attention because OCD has yet to receive the analytical results from the January 2022 vadose zone release response sampling event and the release response action plan required of 19.15.36.15.E(5) NMAC for OCD review and consideration

Chevron USA Inc.
Permit NM2-012
August 30, 2022
Page 2 of 2

of approval. Pursuant to 19.15.36.15.E(5) 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.*

On April 20, 2022, OCD approved the February 17, 2022 vadose zone release response action plan based upon the releases detected during the June 2021 routine vadose zone sampling event and the release response vadose zone sampling performed during October 2021. The February 17, 2022 vadose zone release response action plan submitted by Chevron did not include or recognize any of the releases detected during the December 2021 routine vadose zone sampling event or include any of the results of the vadose zone release response sampling performed during January 2022. Please submit the vadose zone release response action plan for the releases detected during the December 2021 routine vadose zone sampling event and the results of the vadose zone release response sampling performed during January 2022 for OCD's review and consideration of approval as required of 19.15.36.15.E(5) NMAC.

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.

If there are any questions regarding this matter, please do not hesitate to email me at brad.a.jones@state.nm.us.

Respectfully,

A handwritten signature in blue ink, appearing to read 'Brad A. Jones', with a stylized flourish at the end.

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 128964

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 128964
	Action Type: [C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

CONDITIONS

Created By	Condition	Condition Date
bjones	OCD emailed the review of the 2021 Annual Report, for the Jal Landfarm under NM2-12, to Armando Martinez (Chevron) and Steve Rice (Arcadis) on August 30, 2022. OCD's review is attached to the end of the report submittal as OCD's Response. If you have any questions regarding this matter, please do not hesitate to contact me.	8/30/2022