



Chevron Environmental Management Company

RELEASE RESPONSE SAMPLING RESULTS AND ACTION PLAN – SECOND QUARTER 2020

Jal Landfarm NM-02-0012

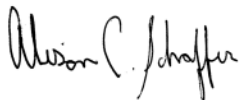
Centralized Surface Waste Management Facility

Lea County, New Mexico

July 2021

RELEASE RESPONSE SAMPLING RESULTS AND ACTION PLAN – SECOND QUARTER 2020

**RELEASE RESPONSE
SAMPLING RESULTS AND
ACTION PLAN – SECOND
QUARTER 2020**



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Jal Landfarm NM-02-0012
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ACRONYMS AND ABBREVIATIONS

Arcadis	Arcadis U.S., Inc.
Background SAP	Draft Background Sampling and Analysis Plan, Jal Landfarm NM-02-0012, Centralized Surface Waste Management Facility, Lea County, New Mexico
BTEX	benzene, toluene, ethylbenzene, and xylenes
CEMC	Chevron Environmental Management Company
DRO	diesel range organics
GRO	gasoline range organics
NMAC	New Mexico Administrative Code
NMOCD	New Mexico Oil Conservation Division
ORO	oil range organics
Part 36	19.15.36 New Mexico Administrative Code
PCB	polychlorinated biphenyl
PQL	practical quantification limit
SDL	sample detection limit
Site	Centralized Surface Waste Management Facility NM-02-0012 located in Lea County, New Mexico
SVOC	semi-volatile organic compound
TDS	total dissolved solids
TPH	total petroleum hydrocarbons
Transitional Provisions	Transitional Provisions of the Surface Waste Management Facilities Part 36 (19.15.36.20 NMAC)
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

RELEASE RESPONSE SAMPLING RESULTS AND ACTION PLAN – SECOND QUARTER 2020

1 INTRODUCTION

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

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 On February 14, 2007, Rule 711 was repealed and replaced by 19.15.36 New Mexico Administrative Code (NMAC; February 14, 2007, as amended through June 30, 2016), commonly referred to as Part 36.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

1.1 Overview and Purpose

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

As specified in 19.15.36.15 NMAC, active landfarms require routine operation, maintenance, and monitoring activities to remediate impacted soils and verify that petroleum-related impacts do not migrate into the vadose zone. As part of the vadose zone monitoring program, site operators are required to monitor for potential releases of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylenes (BTEX), and chloride into the vadose zone. According to 19.15.36.15.E(5) NMAC, a release is defined as “concentrations of TPH, BTEX, or chlorides [that] exceed the higher of the practical quantification limit (PQL) or the background soil concentrations”. In June 1998, a background soil sample was collected from the center of the Site at a depth of 2 to 2.5 feet below native ground surface. The sample was analyzed for TPH (gasoline range organics [GRO] fraction), major cations and anions, BTEX, and heavy metals (Texaco Exploration & Production, Inc. 1998). The analytical results from the background soil sample, presented in Table 1 below, are considered background soil concentrations and are used to determine whether a release has occurred. Representative background soil concentrations have not yet been established for diesel range organics (DRO) and oil range organics (ORO) fractions; therefore, detections of DRO or GRO above the sample detection limit (SDL) indicate that a release has occurred¹.

¹ Once the Background Sampling and Analysis Plan (Background SAP; Arcadis 2020a) is implemented, representative background soil concentrations and laboratory-specific PQLs based upon the non-detect method detection limit, or sampling detection limit, will be established and applied to determine potential releases.

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Table 1. Background Soil Concentrations

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

Note:

mg/kg = milligram(s) per kilogram

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

The Second Quarter 2020 soil sampling event was performed in June 2020. Results of the vadose zone sampling showed that TPH (DRO and ORO fractions) and chloride concentrations were detected above the SDL in Cells 17, 18, 19, 20, and 21; therefore, the release response process was initiated. CEMC notified NMOCD of the exceedances and a release response sampling event was performed in August 2020.

The purpose of this document is to provide a summary of the Second Quarter 2020 vadose zone sampling event and the August 2020 release response sampling event and associated results, and to provide a release response action plan to address the potential release of petroleum-related impacts in the vadose zone of the Site.

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2 SECOND QUARTER 2020 VADOSE ZONE SAMPLING

The Second Quarter 2020 vadose zone sampling event was performed on June 25, 2020. One randomly selected, discrete soil sample was collected from the vadose zone of each active cell. Samples were collected at a depth of approximately 2 to 3 feet below native ground surface. The June 2020 sample locations are shown on Figure 2.

Prior to sample collection, an approximate 5-by-5-foot area of treatment zone soil was removed using a backhoe to minimize the potential for cross-contamination. The backhoe bucket was decontaminated following removal of treatment zone soil and before excavation of native soil using a pressure washer with alconox solution. The backhoe was then used to remove an additional 6 inches of native soil and approximately one and 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 then collected. Soil samples were placed into 4-ounce, laboratory-supplied sample jars, which were labelled and shipped on ice to TestAmerica Laboratories, Inc. in Houston, Texas for laboratory analysis. The discrete sample locations were recorded with a Trimble handheld global positioning system receiver.

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

Soil samples were analyzed for the following constituents:

- TPH as DRO, GRO, and ORO by United States Environmental Protection Agency (USEPA) Method 8015B. As agreed in a February 2, 2019 meeting between representatives from NMOCD, CEMC, and Arcadis, TPH is represented as the sum of the DRO, GRO, and ORO fractions.
- BTEX by USEPA Method 8260B
- Chloride by USEPA Method 300.0.

2.1 Second Quarter 2020 Vadose Zone Sampling Results

Analytical results from the June 2020 vadose zone sampling event are provided in Table 2. Laboratory reports are provided in Appendix A.

As discussed in Section 1.1 and specified in 19.15.36.15.E(5) NMAC, vadose zone analytical results for TPH, BTEX, and chloride were compared to the 1998 background soil concentrations and SDLs to determine whether a release had occurred. The results are summarized below.

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

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3 RELEASE RESPONSE SOIL SAMPLING

Release response sampling was performed in response to concentrations of DRO, GRO, and chloride detected at concentrations above the background soil concentrations or SDLs in the vadose zone. On August 6 and 7, 2020, four randomly selected, discrete vadose zone soil samples were collected from Cells 17, 18, 19, 20, and 21 following the same methodology as described in Section 2. The August 2020 sample locations are shown on Figure 2.

The release response samples were analyzed for the following constituents:

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

3.1 Release Response Soil Sampling Results

Analytical results from the August 2020 vadose zone sampling event are provided in Tables 3 through 10. Laboratory reports are provided in Appendix B.

As discussed in Section 1.1 and specified in 19.15.36.15.E(5) NMAC, vadose zone analytical results for TPH, BTEX, chloride, and the constituents listed in Subsections A and B of 20.6.2.3103 NMAC were compared to the 1998 background soil concentrations listed in Table 1 or the SDL. The results are summarized below.

- *TPH*: DRO concentrations were detected above the SDL in Cells 17, 19, and 21. ORO concentrations were detected above the SDL in Cells 17, 18, and 19. GRO concentrations were below the background soil concentration in all samples.
- *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, and 20.
- *Constituents listed in Subsections A and B* (see Table 11 below):
 - o Metals. Barium, iron, and manganese were detected at concentrations greater than the background soil concentrations or SDL in Cells 17, 18, 19, 20, and 21. Uranium was detected at concentrations greater than the SDL in Cells 17 and 18. Chromium was detected above the background soil concentration in Cell 18.
 - o Volatile organic compound (VOC) chloroform was detected at concentrations greater than the SDL in Cells 17, 18, 19, 20, and 21. Methylene chloride was detected at concentrations greater than the SDL in Cells 19, 20, and 21.
 - o Semi-volatile organic compound (SVOC), as listed below, were detected at concentrations greater than the SDL in Cells 17, 18, 19, 20, and/or 21:

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- 1-Methyl-naphthalene: Cell 19
- 2-Methyl-naphthalene: Cells 17, 19, and 21
- N-nitrosodi-n-butylamine and dimethyl phthalate: Cell 18
- Bis(2-ethylhexyl) phthalate and Di-n-butylphthalate: Cells 17, 18, 19, 20, and 21
- o Polychlorinated biphenyl (PCB) concentrations were below the SDL in all cells.
- o Other constituents, as listed below, were detected at concentrations greater than the SDL or background soil concentration in Cells 17, 18, 19, 20, and/or 21:
 - Nitrate, sulfate, fluoride, and total dissolved solids (TDS): Cells 17, 18, 19, 20, and 21
 - Phenols and perchlorate: Cells 17, 18, 19, and 20
 - Cyanide: Cells 17, 18, and 19
 - Nitrite: Cell 18
- o Radium, including combined Radium-226 and Radium-228, was detected above the minimum detectable concentration in all cells.
- o Pesticides concentrations were below the SDL in all cells.

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

Cell	Metals	VOCs	SVOCs	PCBs	Other Constituents	Radium	Pesticides
Cell 17	Barium, iron, manganese, uranium	Chloroform	2-Methyl-naphthalene, bis(2-ethylhexyl) phthalate, Di-n-butylphthalate	None	Nitrate, sulfate, fluoride, cyanide, phenols, TDS, perchlorate	Combined Radium-226 + 228	None
Cell 18	Barium, chromium, iron, manganese, uranium	Chloroform	N-nitrosodi-n-butylamine, bis(2-ethylhexyl) phthalate, Di-n-butylphthalate, dimethyl phthalate	None	Nitrate, nitrite, sulfate, fluoride, cyanide, phenols, TDS, perchlorate	Combined Radium-226 + 228	None
Cell 19	Barium, iron, manganese	Chloroform, Methylene chloride	1-Methyl-naphthalene, 2-Methyl-naphthalene, bis(2-ethylhexyl) phthalate, Di-n-butylphthalate	None	Nitrate, sulfate, fluoride, cyanide, phenols, TDS, perchlorate	Combined Radium-226 + 228	None
Cell 20	Barium, iron, manganese	Chloroform, Methylene chloride	bis(2-ethylhexyl) phthalate, Di-n-butylphthalate	None	Nitrate, sulfate, fluoride, phenols, TDS, perchlorate	Combined Radium-226 + 228	None
Cell 21	Barium, iron, manganese	Chloroform, Methylene chloride	2-Methyl-naphthalene, bis(2-ethylhexyl) phthalate, Di-n-butylphthalate	None	Nitrate, sulfate, fluoride, TDS	Combined Radium-226 + 228	None

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4 RELEASE RESPONSE ACTION PLAN

The second quarter 2020 and release response sampling results demonstrate an unauthorized release to the vadose zone, as defined by provision 19.15.36.15.E(5) NMAC. CEMC will address the release of constituents of concern into the vadose zone in accordance with provision 19.15.29 NMAC (Part 29), which will include submittal of a release notification, additional site assessment and characterization, remediation (if required), and closure.

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

The following activities will be performed at the Site:

- Continued treatment zone and vadose monitoring in accordance with permit NM-02-012 and the minor permit modification request (Arcadis 2020b), approved by the NMOCD on December 24, 2020.
- Continued weekly site inspections and maintenance (as needed).
- Collection and statistical analysis of background samples in accordance with the Background SAP (Arcadis 2020a), approved by the NMOCD on August 14, 2020. The background sampling event was performed in March 2021. Implementation of the approved Background SAP field effort was delayed in 2020 due to unforeseen circumstances related to COVID-19.

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5 REFERENCES

- Arcadis. 2019. Draft Minor Permit Modification Request, Jal Landfarm NM-02-0012, Centralized Surface Waste Management Facility, Lea County, New Mexico. June 27.
- Arcadis. 2020a. Final Background Sampling and Analysis Plan. Jal Landfarm NM-02-0012, Centralized Surface Waste Management Facility, Lea County, New Mexico. June 15.
- Arcadis. 2020b. Minor Permit Modification Request. Jal Landfarm NM-02-0012, Centralized Surface Waste Management Facility, Lea County, New Mexico. September 3.
- NMOCD. 1999. OCD Rule 711 Permit Approval NM-01-0012 & NM-02-0013. August 2.
- NMOCD. 2003. Letter from R. Anderson (NMOCD) to R. Bailey (Chevron Texaco) re: Texaco E&P Inc. OCD Rule 711 Permit Approval NM-02-0012. March 26.
- NMOCD. 2004. Letter from R. Anderson (NMOCD) to R. Bailey (Chevron) re: Chevron USA Inc. Surface Water Management Facility Permits NM-02-0012 and NM-02-0013. April 1.
- NMOCD. 2020. Letter from B. Jones (NMOCD) to R. Speer (Chevron) re: Approval of Permit Minor Modification and Exception Requests Jal Landfarm, Permit NM2-012. December 24.
- Texaco Exploration & Production, Inc. 1998. Application for Waste Management Facility Soil Remediation/Landfarm Facility, Lea County, New Mexico. July 29.

TABLES

Table 2: June 2020 Vadose Zone Soil Sampling Analytical Results
Release Response Sampling Results and Action Plan - Second Quarter 2020
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent Method Units				DRO 8015B mg/kg --		GRO 8015B mg/kg < 5.00		ORO 8015B mg/kg --		TPH ^a 8015B mg/kg --		Benzene 8260B mg/kg < 0.05		Toluene 8260B mg/kg < 0.05		Ethylbenzene 8260B mg/kg < 0.05		Xylenes 8260B mg/kg < 0.05		Chloride 300.0 mg/kg 10.0	
Background Soil Concentrations				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-Square46-S-2-3-200625	06/25/2020	2.14	U	0.743	U	6.25	U	9.13	--	0.000738	U	0.00162	U	0.00120	U	0.00132	U	367	--
Cell 18	Vadose	Cell18-Square31-S-2-3-200625	06/25/2020	2.24	U	0.752	U	13.6	--	16.6	--	0.000851	U	0.00186	U	0.00138	U	0.00153	U	163	--
Cell 19	Vadose	Cell19-Square82-S-2-3-200625	06/25/2020	6.10	J	0.820	U	11.4	--	18.3	--	0.000956	U	0.00209	U	0.00155	U	0.00171	U	5.50	J
Cell 20	Vadose	Cell20-Square152-S-2-3-200625	06/25/2020	4.31	J	0.759	U	6.95	U	12.0	--	0.000843	U	0.00185	U	0.00136	U	0.00151	U	5.58	J
Cell 21	Vadose	Cell21-Square73-S-2-3-200625	06/25/2020	8.01	--	0.853	U	7.02	U	15.9	--	0.000956	U	0.00209	U	0.00155	U	0.00171	U	4.04	J
Cell 25	Vadose	Cell25-Square106-S-2-3-200625	06/25/2020	2.15	U	0.734	U	6.30	U	9.18	--	0.000796	U	0.00174	U	0.00129	U	0.00143	U	4.77	J
Cell 26	Vadose	Cell26-Square66-S-2-3-200625	06/25/2020	2.23	U	0.745	U	6.51	U	9.49	--	0.000882	U	0.00193	U	0.00143	U	0.00158	U	4.81	J

Notes:

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

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

2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration for TPH, BTEX, and chloride. Background soil concentrations are available for GRO, BTEX, and chloride; therefore, GRO, BTEX, and chloride analytical results are compared to these values. DRO and ORO analytical results are compared to SDL values.

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

-- = not applicable

BTEX = benzene, toluene, ethylbenzene, and xylenes

DRO = diesel range organics

GRO = gasoline range organics

ID = identification

mg/kg = milligrams per kilogram

MQL = method quantitation limit

NMAC = New Mexico Administrative Code

ORO = oil range organics

SDL = sample detection limit

TPH = total petroleum hydrocarbon

Qualifiers:

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

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

Table 3: August 2020 Vadose Zone Soil Sampling Analytical Results: TPH, BTEX, and Chloride
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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-Square197-S-2-3-200806	08/06/2020	2.84	U	0.657	U	30.4	--	33.9	--	0.000703	U	0.00154	U	0.00114	U	0.00126	U	6.83	--
Cell 17	Vadose	Cell17-Square152-S-2-3-200806	08/06/2020	2.68	U	0.64	U	32.1	--	35.4	--	0.000683	U	0.0015	U	0.00111	U	0.00123	U	2.39	J
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	4.62	J	0.684	U	28.7	--	34.0	--	0.000748	U	0.00164	U	0.00121	U	0.00134	U	4.28	J
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	3.51	J	0.804	U	30.6	--	34.9	--	0.000924	U	0.00202	U	0.0015	U	0.00166	U	157	--
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	9.79	U	0.719	U	28.6	U	39.1	--	0.000731	U	0.0016	U	0.00118	U	0.00131	U	2.72	J
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	3.23	U	0.784	U	56.5	--	60.5	--	0.000835	U	0.00183	U	0.00135	U	0.0015	U	3.29	J
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	2.78	U	0.626	U	8.14	U	11.5	--	0.000708	U	0.00155	U	0.00115	U	0.00127	U	32.3	--
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	2.93	U	0.714	U	8.56	U	12.2	--	0.000798	U	0.00175	U	0.00129	U	0.00143	U	3.01	J
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	2.87	U	0.618	U	8.41	U	11.9	--	0.000739	U	0.00162	U	0.0012	U	0.00133	U	3.15	J
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	4.65	J	0.731	J	38.2	--	43.6	--	0.000759	U	0.00166	U	0.00123	U	0.00136	U	4.90	--
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	11.8	--	0.664	U	37.6	--	50.1	--	0.00155	J	0.00155	U	0.00115	U	0.00127	U	3.75	J
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	3.73	J	0.699	U	37.2	--	41.6	--	0.00285	J	0.00169	U	0.00125	U	0.00139	U	6.12	--
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	1.94	U	0.940	J	5.66	U	8.5	--	0.000773	U	0.00169	U	0.00125	U	0.00139	U	13.6	--
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	2.96	U	0.635	U	8.65	U	12.2	--	0.00275	J	0.00149	U	0.0011	U	0.00122	U	4.17	J
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	2.89	U	0.708	U	8.44	U	12.0	--	0.000777	U	0.0017	U	0.00126	U	0.00139	U	2.45	J
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	2.74	U	0.627	U	8.01	U	11.4	--	0.000648	U	0.00142	U	0.00105	U	0.00116	U	19.0	--
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	11.6	--	0.713	U	8.65	U	21.0	--	0.00353	J	0.00166	U	0.00123	U	0.00136	U	4.42	J
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	2.93	U	0.656	U	8.57	U	12.2	--	0.000777	U	0.0017	U	0.00126	U	0.00139	U	4.25	J
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	2.79	U	0.688	U	8.15	U	11.6	--	0.000999	J	0.00156	U	0.00115	U	0.00127	U	3.14	J
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	2.84	U	0.654	U	8.30	U	11.8	--	0.00215	J	0.00142	U	0.00105	U	0.00116	U	2.25	J

Notes:

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

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

2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration for TPH, BTEX, and chloride. Background soil concentrations are available for GRO, BTEX, and chloride; therefore, GRO, BTEX, and chloride analytical results are compared to these values. DRO and ORO analytical results are compared to SDL values.

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

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

Qualifiers:

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

Table 4: August 2020 Vadose Zone Soil Sampling Analytical Results: Metals
Release Response Sampling Results and Action Plan - Second Quarter 2020
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent Method Units Soil Background Concentration				Antimony 6010B mg/kg --		Arsenic 6010B mg/kg < 5.0		Barium 6010B mg/kg 45.0		Beryllium 6010B mg/kg --		Cadmium 6010B mg/kg < 2.0		Chromium 6010B mg/kg 6.1		Copper 6010B mg/kg --		Iron 6010B mg/kg --		Lead 6010B mg/kg < 5.0	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square152-S-2-3-200806	08/06/2020	1.77	U	3.55	U	31.9	--	0.355	U	0.213	U	5.24	J	3.55	U	5,280	--	5.54	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	2.17	U	4.33	U	122	--	0.433	U	0.26	U	4.88	U	4.33	U	1,700	--	1.35	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	2.49	U	4.98	U	341	--	0.498	U	1.050	--	5.60	U	4.98	U	3,690	--	3.40	J
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	2.20	U	4.41	U	425	--	0.441	U	0.265	U	4.96	U	4.41	U	1,820	--	1.38	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	2.09	U	4.18	U	47.9	--	0.418	U	0.251	U	6.62	J	5.37	J	5,950	--	6.54	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	2.22	U	4.44	U	316	--	1.110	U	0.266	U	4.99	U	4.44	U	2,320	--	1.59	J
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	2.04	U	4.34	J	339	--	0.408	U	0.245	U	4.59	U	4.08	U	2,240	--	1.53	J
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	2.20	U	4.40	U	893	--	1.100	U	0.264	U	5.60	J	4.40	U	4,970	--	3.44	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	2.15	U	4.30	U	420	--	0.43	U	0.258	U	4.84	U	4.30	U	1,290	--	1.34	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	2.22	U	4.45	U	173	--	0.445	U	0.267	U	5.00	U	4.45	U	2,420	--	1.39	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	2.05	U	4.11	U	89.9	--	1.030	U	0.246	U	4.62	U	4.11	U	2,220	--	3.21	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	2.01	U	4.02	U	312	--	0.402	U	0.241	U	4.53	U	4.02	U	2,510	--	1.28	J
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	1.83	U	4.33	J	209	--	0.365	U	0.219	U	4.11	U	3.65	U	1,740	--	1.14	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	2.14	U	4.39	J	477	--	0.428	U	0.257	U	4.81	U	4.28	U	1,170	--	1.34	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	2.24	U	5.04	J	331	--	0.449	U	0.269	U	5.05	U	4.49	U	1,640	--	1.40	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	2.08	U	4.17	U	245	--	0.417	U	0.250	U	4.69	U	4.17	U	2,050	--	1.30	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	2.01	U	4.76	J	288	--	0.402	U	0.241	U	4.52	U	4.02	U	1,630	--	1.26	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	2.03	U	4.06	U	297	--	0.406	U	0.244	U	4.57	U	4.06	U	3,670	--	1.27	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	2.15	U	4.29	U	385	--	0.429	U	0.257	U	4.83	U	4.29	U	2,170	--	1.34	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	2.10	U	4.21	U	806	--	0.421	U	0.252	U	4.73	U	4.21	U	1,910	--	1.31	U

Notes:

1. Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.
2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.
3. Detected values highlighted in grey exceed the soil background concentration or SDL.

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

Qualifiers:

J = Result is less than the 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 4: August 2020 Vadose Zone Soil Sampling Analytical Results: Metals
Release Response Sampling Results and Action Plan - Second Quarter 2020
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent Method Units Soil Background Concentration				Manganese 6010B mg/kg --		Mercury 7471A mg/kg < 0.25		Uranium 6020A mg/kg --		Selenium 6010B mg/kg < 5.0		Silver 6010B mg/kg < 5.0		Thallium 6010B mg/kg --		Zinc 6010B 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-Square152-S-2-3-200806	08/06/2020	110	--	0.00346	U	1.77	U	2.84	U	0.665	U	8.86	U	17.7	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	19.5	--	0.00385	U	0.433	U	3.47	U	0.813	U	2.17	U	21.7	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	37.6	--	0.00486	U	1.59	--	3.99	U	0.934	U	2.49	U	24.9	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	24.2	--	0.00401	U	0.441	U	3.53	U	0.827	U	2.20	U	22.0	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	88.4	--	0.00384	U	2.090	U	3.35	U	0.784	U	10.5	U	20.9	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	22.6	--	0.00424	U	1.11	U	3.55	U	0.832	U	2.22	U	22.2	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	24.9	--	0.00526	J	0.516	J	3.26	U	0.765	U	2.04	U	20.4	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	34.6	--	0.00945	J	1.10	U	3.52	U	0.825	U	5.50	U	22.0	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	15.9	--	0.00390	U	0.430	U	3.44	U	0.807	U	2.15	U	21.5	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	20.1	--	0.00374	U	0.445	U	3.56	U	0.833	U	2.22	U	22.2	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	24.1	--	0.00390	U	1.03	U	3.29	U	0.770	U	5.13	U	20.5	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	18.6	--	0.00413	U	0.402	U	3.22	U	0.754	U	2.01	U	20.1	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	21.1	--	0.00584	J	0.365	U	2.92	U	0.685	U	1.83	U	18.3	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	6.07	--	0.00399	U	0.428	U	3.42	U	0.802	U	2.14	U	21.4	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	15.4	--	0.00373	U	0.449	U	3.59	U	0.842	U	2.24	U	22.4	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	20.4	--	0.00382	U	0.417	U	3.33	U	0.781	U	2.08	U	20.8	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	10.0	--	0.00381	U	0.402	U	3.22	U	0.754	U	2.01	U	20.1	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	43.2	--	0.00403	U	0.406	U	3.25	U	0.761	U	2.03	U	20.3	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	17.4	--	0.00350	U	0.429	U	3.43	U	0.805	U	2.15	U	21.5	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	19.8	--	0.00372	U	0.421	U	3.37	U	0.789	U	2.10	U	21.0	U

Notes:

1. Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.
2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.
3. Detected values highlighted in grey exceed the soil background concentration or SDL.

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

Qualifiers:

J = Result is less than the 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 5: August 2020 Vadose Zone Soil Sampling Analytical Results: VOCs
Release Response Sampling Results and Action Plan - Second Quarter 2020
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-Square152-S-2-3-200806	08/06/2020	0.000802	U	0.000943	U	0.000792	U	0.000943	U	0.00132	U	0.00214	U	0.00087	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.000826	U	0.000971	U	0.000815	U	0.000971	U	0.00136	U	0.0022	U	0.00089	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00109	U	0.001280	U	0.0011	U	0.00128	U	0.00179	U	0.00289	U	0.00117	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.000879	U	0.00103	U	0.000867	U	0.00103	U	0.00145	U	0.00234	U	0.00095	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00083	U	0.000977	U	0.000820	U	0.000977	U	0.00137	U	0.00221	U	0.00090	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.000981	U	0.00115	U	0.000967	U	0.00115	U	0.00162	U	0.00261	U	0.00106	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.000938	U	0.0011	U	0.00093	U	0.0011	U	0.00155	U	0.0025	U	0.00101	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.000859	U	0.00101	U	0.000847	U	0.00101	U	0.00142	U	0.00229	U	0.00093	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.000832	U	0.000978	U	0.000821	U	0.000978	U	0.00137	U	0.00222	U	0.00090	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.000907	U	0.00107	U	0.000895	U	0.00107	U	0.0015	U	0.00242	U	0.00098	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.000868	U	0.00102	U	0.000857	U	0.00102	U	0.00143	U	0.00231	U	0.00094	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.000892	U	0.00105	U	0.00088	U	0.00105	U	0.00147	U	0.00237	U	0.00096	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.000761	U	0.000895	U	0.000751	U	0.000895	U	0.00125	U	0.00203	U	0.00082	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.000908	U	0.00107	U	0.000896	U	0.00107	U	0.0015	U	0.00242	U	0.00098	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.000913	U	0.00107	U	0.0009	U	0.00107	U	0.0015	U	0.00243	U	0.00099	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.000798	U	0.000938	U	0.000787	U	0.000938	U	0.00132	U	0.00212	U	0.00086	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.000889	U	0.00105	U	0.000877	U	0.00105	U	0.00147	U	0.00237	U	0.00096	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.000913	U	0.001070	U	0.000900	U	0.00107	U	0.00150	U	0.00243	U	0.00099	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.000834	U	0.000981	U	0.000823	U	0.000981	U	0.00138	U	0.00222	U	0.00090	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.000761	U	0.000895	U	0.000751	U	0.000895	U	0.00126	U	0.00203	U	0.00082	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
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 5: August 2020 Vadose Zone Soil Sampling Analytical Results: VOCs
Release Response Sampling Results and Action Plan - Second Quarter 2020
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-Square152-S-2-3-200806	08/06/2020	0.00111	U	0.000976	U	0.00077	U	0.000716	U	0.00123	U	0.000998	J b	0.0009	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00114	U	0.001	U	0.000793	U	0.000737	U	0.00126	U	0.00105	J b	0.000927	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.0015	U	0.00132	U	0.00104	U	0.000968	U	0.00166	U	0.00147	J b	0.00122	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00121	U	0.00107	U	0.000843	U	0.000784	U	0.00134	U	0.00105	J b	0.000986	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00115	U	0.00101	U	0.000797	U	0.000741	U	0.00127	U	0.00107	J b	0.000932	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00135	U	0.00119	U	0.000941	U	0.000875	U	0.0015	U	0.00118	J b	0.0011	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00129	U	0.00114	U	0.0009	U	0.000837	U	0.00143	U	0.00127	J b	0.00105	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00118	U	0.00104	U	0.000824	U	0.000766	U	0.00131	U	0.001	J b	0.000964	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00115	U	0.00101	U	0.000798	U	0.000742	U	0.00127	U	0.00227	J b	0.0009	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00125	U	0.0011	U	0.000871	U	0.000809	U	0.00139	U	0.00251	J b	0.00102	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.0012	U	0.00106	U	0.000833	U	0.000774	U	0.00133	U	0.000974	J b	0.000974	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00123	U	0.00108	U	0.000856	U	0.000795	U	0.00136	U	0.00231	J b	0.001	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00105	U	0.000926	U	0.00073	U	0.000679	U	0.00116	U	0.00191	J b	0.000854	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00125	U	0.00110	U	0.000872	U	0.00081	U	0.00139	U	0.00237	J b	0.00102	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00126	U	0.00111	U	0.000876	U	0.000814	U	0.00139	U	0.00242	J b	0.00102	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00110	U	0.000971	U	0.000766	U	0.000712	U	0.00122	U	0.00213	J b	0.000895	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00123	U	0.00108	U	0.000853	U	0.000793	U	0.00136	U	0.00245	J b	0.000998	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00126	U	0.00111	U	0.000876	U	0.000814	U	0.00139	U	0.00238	J b	0.00102	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00115	U	0.00101	U	0.0008	U	0.000744	U	0.00127	U	0.00223	J b	0.000935	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00105	U	0.000926	U	0.000731	U	0.000679	U	0.00116	U	0.00253	J b	0.000854	U

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Table 5: August 2020 Vadose Zone Soil Sampling Analytical Results: VOCs
Release Response Sampling Results and Action Plan - Second Quarter 2020
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				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-Square152-S-2-3-200806	08/06/2020	0.00237	U	0.00198	U	0.00077	U	0.00077	U	0.00124	U	0.00152	U	0.000976	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00244	U	0.00204	U	0.000793	U	0.000793	U	0.00127	U	0.00156	U	0.001	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00321	U	0.00268	U	0.00104	U	0.00104	U	0.00167	U	0.00205	U	0.00132	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.0026	U	0.00217	U	0.000843	U	0.000843	U	0.00135	U	0.00166	U	0.00107	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00246	U	0.00206	U	0.000797	U	0.000797	U	0.00128	U	0.00157	U	0.00101	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00290	U	0.00242	U	0.000941	U	0.000941	U	0.00151	U	0.00186	U	0.00119	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00278	U	0.00232	U	0.0009	U	0.0009	U	0.00144	U	0.00177	U	0.00114	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00254	U	0.00212	U	0.000824	U	0.000824	U	0.00132	U	0.00163	U	0.00104	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00469	J	0.00206	U	0.000798	U	0.000798	U	0.00128	U	0.00157	U	0.00101	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00476	J	0.00224	U	0.000871	U	0.000871	U	0.0014	U	0.00172	U	0.0011	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00257	U	0.00215	U	0.000833	U	0.000833	U	0.00134	U	0.00164	U	0.00106	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00264	U	0.00221	U	0.000856	U	0.000856	U	0.00137	U	0.00169	U	0.00108	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00225	U	0.00188	U	0.00073	U	0.00073	U	0.00117	U	0.00144	U	0.000926	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00269	U	0.00225	U	0.000872	U	0.000872	U	0.0014	U	0.00172	U	0.0011	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00421	J	0.00226	U	0.000876	U	0.000876	U	0.00141	U	0.00173	U	0.00111	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00395	J	0.00197	U	0.000766	U	0.000766	U	0.00123	U	0.00151	U	0.000971	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00396	J	0.0022	U	0.000853	U	0.000853	U	0.00137	U	0.00168	U	0.00108	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00293	J	0.00226	U	0.000876	U	0.000876	U	0.00141	U	0.00173	U	0.00111	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00316	J	0.00206	U	0.0008	U	0.0008	U	0.00128	U	0.00158	U	0.00101	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00353	J	0.00188	U	0.000731	U	0.000731	U	0.00117	U	0.00144	U	0.000926	U

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3. Detected values highlighted in grey exceed the SDL.

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Table 5: August 2020 Vadose Zone Soil Sampling Analytical Results: VOCs
Release Response Sampling Results and Action Plan - Second Quarter 2020
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-Square152-S-2-3-200806	08/06/2020	0.00149	U	0.00676	U	0.00631	U	0.000716	U	0.0009	U *	0.0018	U	0.000716	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00153	U	0.00695	U	0.0065	U	0.000737	U	0.000927	U *	0.00185	U	0.000737	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00201	U	0.00914	U	0.00853	U	0.000968	U	0.00122	U *	0.00243	U	0.000968	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00163	U	0.00740	U	0.00691	U	0.000784	U	0.000986	U *	0.00197	U	0.000784	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00154	U	0.00700	U	0.00654	U	0.000741	U	0.000932	U *	0.00186	U	0.000741	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00182	U	0.00826	U	0.00771	U	0.000875	U	0.0011	U *	0.0022	U	0.000875	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00174	U	0.00790	U	0.00738	U	0.000837	U	0.00105	U *	0.0021	U	0.000837	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00159	U	0.00723	U	0.00676	U	0.000766	U	0.000964	U *	0.00193	U	0.000766	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00154	U	0.00701	U	0.00654	U	0.000742	U	0.000933	U	0.00187	U	0.000742	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00168	U	0.00764	U	0.00714	U	0.000809	U	0.00102	U	0.00204	U	0.000809	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00161	U	0.00731	U	0.00683	U	0.000774	U	0.000974	U *	0.00195	U	0.000774	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00165	U	0.00751	U	0.00701	U	0.000795	U	0.001	U	0.002	U	0.000795	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00141	U	0.00641	U	0.00599	U	0.000679	U	0.000854	U	0.00171	U	0.000679	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00168	U	0.00765	U	0.00714	U	0.00081	U	0.00102	U	0.00204	U	0.00081	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00169	U	0.00768	U	0.00718	U	0.000814	U	0.00102	U	0.00205	U	0.000814	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00148	U	0.00672	U	0.00628	U	0.000712	U	0.000895	U	0.00179	U	0.000712	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00165	U	0.00749	U	0.007	U	0.000793	U	0.000998	U	0.002	U	0.000793	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00169	U	0.00768	U	0.00718	U	0.000814	U	0.00102	U	0.00205	U	0.000814	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00154	U	0.00702	U	0.00656	U	0.000744	U	0.000935	U	0.00187	U	0.000744	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00141	U	0.00641	U	0.00599	U	0.000679	U	0.000854	U	0.00171	U	0.000679	U

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Table 5: August 2020 Vadose Zone Soil Sampling Analytical Results: VOCs
Release Response Sampling Results and Action Plan - Second Quarter 2020
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-Square152-S-2-3-200806	08/06/2020	0.0673	U	0.000586	U	0.000629	U	0.000629	U	0.000705	U	0.00167	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.0693	U	0.000603	U	0.000647	U	0.000647	U	0.000726	U	0.00172	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.091	U	0.000792	U	0.00085	U	0.00085	U	0.000953	U	0.00226	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.0737	U	0.000641	U	0.000689	U	0.000689	U	0.000772	U	0.00183	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.0697	U	0.000607	U	0.000651	U	0.000651	U	0.00073	U	0.00173	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.0822	U	0.000716	U	0.000769	U	0.000769	U	0.000861	U	0.00204	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.0787	U	0.000684	U	0.000735	U	0.000735	U	0.000824	U	0.00195	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.0721	U	0.000627	U	0.000673	U	0.000673	U	0.000755	U	0.00179	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.0698	U	0.000607	U	0.000652	U	0.000652	U	0.000731	U	0.00173	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.0761	U	0.000662	U	0.000711	U	0.000711	U	0.000797	U	0.00189	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.0728	U	0.000634	U	0.000681	U	0.000681	U	0.000763	U	0.00181	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.0748	U	0.000651	U	0.000699	U	0.000699	U	0.000783	U	0.00186	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.0638	U	0.000555	U	0.000596	U	0.000596	U	0.000668	U	0.00158	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.0762	U	0.000663	U	0.000712	U	0.000712	U	0.000798	U	0.00189	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.0766	U	0.000666	U	0.000715	U	0.000715	U	0.000802	U	0.0019	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.0669	U	0.000582	U	0.000625	U	0.000625	U	0.000701	U	0.00166	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.0746	U	0.000649	U	0.000697	U	0.000697	U	0.000781	U	0.00185	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.0766	U	0.000666	U	0.000715	U	0.000715	U	0.000802	U	0.0019	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.07	U	0.000609	U	0.000654	U	0.000654	U	0.000733	U	0.00174	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.0639	U	0.000556	U	0.000597	U	0.000597	U	0.000669	U	0.00158	U

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Table 6: August 2020 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - Second Quarter 2020
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				8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C 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-Square152-S-2-3-200806	08/06/2020	0.00164	U	0.00366	J	0.00151	U	0.00105	U	0.00134	U	0.00525	U	0.00144	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00174	U	0.00303	U	0.00159	U	0.00111	U	0.00141	U	0.00555	U	0.00153	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00212	U	0.0037	U	0.00195	U	0.00135	U	0.00173	U	0.00678	U	0.00187	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00175	U	0.00305	U	0.00161	U	0.00111	U	0.00143	U	0.0056	U	0.00154	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.0017	U	0.00297	U	0.00156	U	0.00108	U	0.00139	U	0.00544	U	0.0015	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00197	U	0.00344	U	0.00181	U	0.00126	U	0.00161	U	0.00631	U	0.00173	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.0018	U	0.00313	U	0.00165	U	0.00114	U	0.00146	U	0.00574	U	0.00158	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00183	U	0.00319	U	0.00168	U	0.00116	U	0.00149	U	0.00585	U	0.00161	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00176	U	0.00307	U	0.00161	U	0.00112	U	0.00143	U	0.00562	U	0.00155	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00236	J	0.00399	J	0.00165	U	0.00115	U	0.00147	U	0.00577	U	0.00159	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00176	U	0.00307	U	0.00162	U	0.00112	U	0.00144	U	0.00563	U	0.00155	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00181	U	0.00316	U	0.00166	U	0.00115	U	0.00148	U	0.00579	U	0.00159	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00168	U	0.00294	U	0.00154	U	0.00107	U	0.00137	U	0.00538	U	0.00148	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00177	U	0.00309	U	0.00163	U	0.00113	U	0.00145	U	0.00567	U	0.00156	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00176	U	0.00308	U	0.00162	U	0.00112	U	0.00144	U	0.00564	U	0.00155	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00181	U	0.00316	U	0.00166	U	0.00115	U	0.00148	U	0.00579	U	0.00159	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.0018	U	0.00315	U	0.00165	U	0.00115	U	0.00147	U	0.00577	U	0.00159	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00179	U	0.00313	U	0.00164	U	0.00114	U	0.00146	U	0.00573	U	0.00158	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00171	U	0.00298	U	0.00157	U	0.00109	U	0.00139	U	0.00546	U	0.0015	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00173	U	0.00582	J	0.00159	U	0.0011	U	0.00141	U	0.00555	U	0.00152	U

Notes:

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3. Detected values highlighted in grey exceed the SDL.

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Table 6: August 2020 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - Second Quarter 2020
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				8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C 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-Square152-S-2-3-200806	08/06/2020	0.00168	U	0.0018	U	0.0053	U	0.00156	U	0.00107	U	0.0038	U	0.00325	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00178	U	0.0019	U	0.0056	U	0.00165	U	0.00113	U	0.00401	U	0.00344	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00218	U	0.00232	U	0.00685	U	0.00201	U	0.00138	U	0.00491	U	0.0042	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00179	U	0.00192	U	0.00565	U	0.00166	U	0.00114	U	0.00405	U	0.00347	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00175	U	0.00187	U	0.0055	U	0.00162	U	0.00111	U	0.00394	U	0.00337	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00202	U	0.00216	U	0.00637	U	0.00187	U	0.00128	U	0.00456	U	0.00391	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00184	U	0.00197	U	0.0058	U	0.0017	U	0.00117	U	0.00415	U	0.00356	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00188	U	0.002	U	0.00591	U	0.00174	U	0.00119	U	0.00423	U	0.00362	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.0018	U	0.00193	U	0.00568	U	0.00167	U	0.00114	U	0.00407	U	0.00348	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00185	U	0.00198	U	0.00582	U	0.00171	U	0.00117	U	0.00417	U	0.00357	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00181	U	0.00193	U	0.00569	U	0.00167	U	0.00114	U	0.00407	U	0.00349	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00186	U	0.00198	U	0.00585	U	0.00172	U	0.00118	U	0.00419	U	0.00359	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00172	U	0.00184	U	0.00543	U	0.0016	U	0.00109	U	0.00389	U	0.00333	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00182	U	0.00194	U	0.00572	U	0.00168	U	0.00115	U	0.0041	U	0.00351	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00181	U	0.00193	U	0.00569	U	0.00167	U	0.00115	U	0.00408	U	0.00349	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00186	U	0.00198	U	0.00585	U	0.00172	U	0.00118	U	0.00419	U	0.00359	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00185	U	0.00198	U	0.00583	U	0.00171	U	0.00117	U	0.00417	U	0.00357	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00184	U	0.00196	U	0.00579	U	0.0017	U	0.00116	U	0.00414	U	0.00355	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00175	U	0.00187	U	0.00552	U	0.00162	U	0.00111	U	0.00395	U	0.00338	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00178	U	0.0019	U	0.00560	U	0.00165	U	0.00113	U	0.00401	U	0.00344	U

Notes:

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Table 6: August 2020 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - Second Quarter 2020
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				8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C 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-Square152-S-2-3-200806	08/06/2020	0.00247	U	0.00366	U	0.00141	U	0.00518	U	0.00191	U	0.00418	U	0.00706	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00261	U	0.00387	U	0.00149	U	0.00547	U	0.00202	U	0.00442	U	0.00746	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00319	U	0.00473	U	0.00182	U	0.00669	U	0.00247	U	0.00541	U	0.00912	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00263	U	0.0039	U	0.0015	U	0.00552	U	0.00204	U	0.00446	U	0.00752	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00256	U	0.0038	U	0.00146	U	0.00537	U	0.00198	U	0.00434	U	0.00732	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00297	U	0.0044	U	0.0017	U	0.00622	U	0.0023	U	0.00503	U	0.00848	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00270	U	0.004	U	0.00154	U	0.00566	U	0.00209	U	0.00457	U	0.00772	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00275	U	0.00408	U	0.00157	U	0.00577	U	0.00213	U	0.00466	U	0.00786	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00264	U	0.00392	U	0.00151	U	0.00554	U	0.00205	U	0.00448	U	0.00756	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00271	U	0.00402	U	0.00155	U	0.00569	U	0.0021	U	0.00459	U	0.00775	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00265	U	0.00393	U	0.00151	U	0.00555	U	0.00205	U	0.00449	U	0.00757	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00272	U	0.00404	U	0.00156	U	0.00571	U	0.00211	U	0.00461	U	0.00778	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00253	U	0.00375	U	0.00145	U	0.0053	U	0.00196	U	0.00429	U	0.00723	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00266	U	0.00395	U	0.00152	U	0.00559	U	0.00207	U	0.00452	U	0.00762	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00265	U	0.00393	U	0.00152	U	0.00556	U	0.00206	U	0.00449	U	0.00758	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00272	U	0.00404	U	0.00156	U	0.00571	U	0.00211	U	0.00461	U	0.00779	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00271	U	0.00402	U	0.00155	U	0.00569	U	0.0021	U	0.0046	U	0.00776	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00269	U	0.004	U	0.00154	U	0.00565	U	0.00209	U	0.00457	U	0.00771	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00257	U	0.00381	U	0.00147	U	0.00539	U	0.00199	U	0.00435	U	0.00735	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00261	U	0.00387	U	0.00149	U	0.00547	U	0.00202	U	0.00442	U	0.00746	U

Notes:

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Table 6: August 2020 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - Second Quarter 2020
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				8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C 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-Square152-S-2-3-200806	08/06/2020	0.00159	U	0.00419	U *	0.00405	U	0.0105	U	0.0028	U	0.00925	U	0.00173	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00168	U	0.00443	U *	0.00428	U	0.0111	U	0.00296	U	0.00977	U	0.00182	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00205	U	0.00542	U *	0.00523	U	0.0135	U	0.00362	U	0.0119	U	0.00223	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00169	U	0.00447	U	0.00431	U	0.0112	U	0.00299	U	0.00985	U	0.00184	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00165	U	0.00435	U	0.0042	U	0.0109	U	0.00291	U	0.00959	U	0.00179	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00191	U	0.00504	U	0.00486	U	0.0126	U	0.00337	U	0.0111	U	0.00207	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00174	U	0.00459	U *	0.00443	U	0.0114	U	0.00306	U	0.0101	U	0.00189	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00177	U	0.00467	U	0.00451	U	0.0117	U	0.00312	U	0.0103	U	0.00192	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.0017	U	0.00449	U	0.00433	U	0.0112	U	0.003	U	0.0099	U	0.00185	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00175	U	0.00461	U	0.00445	U	0.0115	U	0.00308	U	0.0102	U	0.0019	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00171	U	0.0045	U	0.00434	U	0.0112	U	0.00301	U	0.00992	U	0.00185	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00175	U	0.00462	U	0.00446	U	0.0115	U	0.00309	U	0.0102	U	0.0019	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00163	U	0.0043	U	0.00415	U	0.0107	U	0.00287	U	0.00947	U	0.00177	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00172	U	0.00453	U	0.00437	U	0.0113	U	0.00303	U	0.00998	U	0.00186	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00171	U	0.0045	U	0.00435	U	0.0112	U	0.00301	U	0.00993	U	0.00185	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00175	U	0.00463	U	0.00446	U	0.0115	U	0.00309	U	0.0102	U	0.0019	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00175	U	0.00461	U	0.00445	U	0.0115	U	0.00308	U	0.0102	U	0.0019	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00174	U	0.00458	U	0.00442	U	0.0114	U	0.00306	U	0.0101	U	0.00188	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00165	U	0.00436	U	0.00421	U	0.0109	U	0.00292	U	0.00962	U	0.0018	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00168	U	0.00443	U	0.00428	U	0.0111	U	0.00296	U	0.00977	U	0.00182	U

Notes:

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Table 6: August 2020 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - Second Quarter 2020
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				8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C 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-Square152-S-2-3-200806	08/06/2020	0.00242	U	0.0174	U *	0.00751	U *	0.00438	U	0.00198	U	0.00489	U *	0.00521	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00255	U	0.0184	U *	0.00794	U *	0.00463	U	0.00209	U	0.00516	U *	0.0055	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00312	U	0.0225	U *	0.0097	U *	0.00566	U	0.00255	U	0.00631	U *	0.00673	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00257	U	0.0186	U	0.008	U	0.00467	U	0.00211	U	0.00521	U	0.00555	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.0025	U	0.0181	U	0.00779	U	0.00454	U	0.00205	U	0.00506	U	0.0054	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.0029	U	0.0209	U	0.00902	U	0.00526	U	0.00237	U	0.00587	U	0.00626	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00264	U	0.0229	J *	0.00821	U *	0.00479	U	0.00216	U	0.00534	U *	0.00569	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00269	U	0.0194	U	0.00836	U	0.00488	U	0.0022	U	0.00544	U	0.0058	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00259	U	0.0187	U	0.00804	U	0.00469	U	0.00212	U	0.00523	U	0.00558	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00265	U	0.0191	U	0.00825	U	0.00481	U	0.00217	U	0.00536	U	0.00572	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00259	U	0.0187	U	0.00806	U	0.0047	U	0.00212	U	0.00524	U	0.00559	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00266	U	0.0192	U	0.00828	U	0.00483	U	0.00218	U	0.00538	U	0.00574	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00247	U	0.0179	U	0.00769	U	0.00449	U	0.00202	U	0.005	U	0.00534	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00261	U	0.0188	U	0.00811	U	0.00473	U	0.00213	U	0.00527	U	0.00562	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00259	U	0.0187	U	0.00806	U	0.00471	U	0.00212	U	0.00524	U	0.00559	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00267	U	0.0192	U	0.00828	U	0.00483	U	0.00218	U	0.00539	U	0.00575	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00265	U	0.0192	U	0.00825	U	0.00482	U	0.00217	U	0.00537	U	0.00572	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00264	U	0.019	U	0.0082	U	0.00478	U	0.00216	U	0.00533	U	0.00568	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00251	U	0.0181	U	0.00781	U	0.00456	U	0.00206	U	0.00508	U	0.00542	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00255	U	0.0184	U	0.00793	U	0.00463	U	0.00209	U	0.00516	U	0.0055	U

Notes:

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3. Detected values highlighted in grey exceed the SDL.

-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
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.
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Table 6: August 2020 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - Second Quarter 2020
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				8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C 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-Square152-S-2-3-200806	08/06/2020	0.00378	U	0.00309	U	0.00494	U	0.0031	U	0.00562	U	0.00271	U	0.00882	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00399	U	0.00326	U	0.00522	U	0.00327	U	0.00594	U	0.00286	U	0.00932	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00488	U	0.00399	U	0.00638	U	0.004	U	0.0214	J	0.00974	J	0.0114	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00402	U	0.00329	U	0.00526	U	0.0033	U	0.0182	J	0.00289	U	0.0094	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00391	U	0.0032	U	0.00512	U	0.00321	U	0.00582	U	0.00281	U	0.00914	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00454	U	0.00371	U	0.00593	U	0.00372	U	0.0269	J	0.0123	J	0.0106	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00413	U	0.00337	U	0.0054	U	0.00338	U	0.0233	J	0.0131	J	0.00964	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.0042	U	0.00344	U	0.0055	U	0.00345	U	0.019	J	0.00302	U	0.00982	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00404	U	0.0033	U	0.00529	U	0.00332	U	0.0238	J	0.0116	J	0.00944	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00415	U	0.00339	U	0.00542	U	0.0034	U	0.0222	J	0.00298	U	0.00968	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00405	U	0.00331	U	0.0053	U	0.00332	U	0.0278	J	0.00291	U	0.00946	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00416	U	0.0034	U	0.00544	U	0.00341	U	0.0226	J	0.00851	J	0.00972	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00387	U	0.00316	U	0.00506	U	0.00317	U	0.0312	J	0.00606	J	0.00903	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00408	U	0.00333	U	0.00533	U	0.00334	U	0.0258	J b	0.0108	J	0.00952	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00405	U	0.00331	U	0.0053	U	0.00332	U	0.0419	--	0.015	J	0.00947	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00416	U	0.0034	U	0.00545	U	0.00342	U	0.022	J	0.00851	J	0.00973	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00415	U	0.00339	U	0.00542	U	0.0034	U	0.0442	--	0.0187	J	0.00969	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00412	U	0.00337	U	0.00539	U	0.00338	U	0.0295	J	0.0148	J	0.00962	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00393	U	0.00321	U	0.00514	U	0.00322	U	0.0172	J	0.00282	U	0.00917	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00399	U	0.00326	U	0.00522	U	0.00327	U	0.0241	J	0.00286	U	0.00931	U

Notes:

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SVOC = semi-volatile organic compound

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Table 6: August 2020 Vadose Zone Soil Sampling Analytical Results: SVOCs
Release Response Sampling Results and Action Plan - Second Quarter 2020
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				8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C mg/kg		8270C 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-Square152-S-2-3-200806	08/06/2020	0.00512	U	0.00944	U	0.0106	U	0.00169	U	0.00105	U	0.00201	U	0.0174	U	0.00104	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.0054	U	0.00997	U	0.0112	U	0.00179	U	0.00111	U	0.00212	U	0.0184	U	0.00107	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00661	U	0.0122	U	0.0137	U	0.00219	U	0.00135	U	0.00259	U	0.0225	U	0.00141	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00545	U	0.0101	U	0.0113	U	0.00181	U	0.00111	U	0.00214	U	0.0186	U	0.00114	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.0053	U	0.00978	U	0.011	U	0.00176	U	0.00108	U	0.00208	U	0.0181	U	0.00108	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00614	U	0.0113	U	0.0128	U	0.00204	U	0.00126	U	0.00241	U	0.0209	U	0.00127	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00559	U	0.0103	U	0.0116	U	0.00185	U	0.00114	U	0.0022	U	0.0191	U	0.00122	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.0529	J	0.0105	U	0.0118	U	0.00189	U	0.00116	U	0.00224	U	0.0194	U	0.00111	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00548	U	0.0101	U	0.0114	U	0.00181	U	0.00112	U	0.00215	U	0.0187	U	0.00108	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00562	U	0.0104	U	0.0117	U	0.00186	U	0.00115	U	0.00221	U	0.0191	U	0.00118	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00549	U	0.0101	U	0.0114	U	0.00182	U	0.00112	U	0.00215	U	0.0187	U	0.00113	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00564	U	0.0104	U	0.0117	U	0.00187	U	0.00115	U	0.00221	U	0.0192	U	0.00116	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00524	U	0.00966	U	0.0109	U	0.00174	U	0.00107	U	0.00206	U	0.0179	U	0.000987	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00552	U	0.0102	U	0.0115	U	0.00183	U	0.00113	U	0.00217	U	0.0188	U	0.00118	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00549	U	0.0101	U	0.0114	U	0.00182	U	0.00112	U	0.00216	U	0.0187	U	0.00118	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00564	U	0.0104	U	0.0117	U	0.00187	U	0.00115	U	0.00222	U	0.0192	U	0.00104	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00562	U	0.0104	U	0.0117	U	0.00186	U	0.00115	U	0.00221	U	0.0192	U	0.00115	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00558	U	0.0103	U	0.0116	U	0.00185	U	0.00114	U	0.00219	U	0.019	U	0.00118	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00532	U	0.00982	U	0.0111	U	0.00176	U	0.00109	U	0.00209	U	0.0181	U	0.00108	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.0054	U	0.00997	U	0.0112	U	0.00179	U	0.0011	U	0.00212	U	0.0184	U	0.000988	U

Notes:

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Table 7: August 2020 Vadose Zone Soil Sampling Analytical Results: PCBs
Release Response Sampling Results and Action Plan - Second Quarter 2020
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-Square152-S-2-3-200806	08/06/2020	0.00167	U	0.00902	U	0.00700	U	0.00130	U	0.00260	U	0.00231	U	0.0141	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00177	U	0.00954	U	0.00741	U	0.00137	U	0.00275	U	0.00244	U	0.0149	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00217	U	0.0117	U	0.00907	U	0.00168	U	0.00337	U	0.00299	U	0.0183	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00179	U	0.00966	U	0.00750	U	0.00139	U	0.00279	U	0.00247	U	0.0151	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00174	U	0.00937	U	0.00728	U	0.00135	U	0.00270	U	0.00240	U	0.0147	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00202	U	0.0109	U	0.00846	U	0.00157	U	0.00314	U	0.00279	U	0.0170	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00183	U	0.00987	U	0.00766	U	0.00142	U	0.00285	U	0.00253	U	0.0154	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00186	U	0.0100	U	0.00778	U	0.00144	U	0.00289	U	0.00257	U	0.0157	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00180	U	0.00971	U	0.00754	U	0.00140	U	0.00280	U	0.00249	U	0.0152	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00184	U	0.00991	U	0.00770	U	0.00142	U	0.00286	U	0.00254	U	0.0155	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00180	U	0.00968	U	0.00752	U	0.00139	U	0.00279	U	0.00248	U	0.0151	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00184	U	0.00991	U	0.00769	U	0.00142	U	0.00286	U	0.00254	U	0.0155	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00172	U	0.00928	U	0.0072	U	0.00133	U	0.00268	U	0.00238	U	0.0145	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00180	U	0.00973	U	0.00755	U	0.00140	U	0.00281	U	0.00249	U	0.0152	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00181	U	0.00974	U	0.00756	U	0.00140	U	0.00281	U	0.00249	U	0.0152	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00184	U	0.00992	U	0.00770	U	0.00142	U	0.00286	U	0.00254	U	0.0155	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00184	U	0.00991	U	0.00769	U	0.00142	U	0.00286	U	0.00254	U	0.0155	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00183	U	0.00984	U	0.00764	U	0.00141	U	0.00284	U	0.00252	U	0.0154	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00174	U	0.00940	U	0.00730	U	0.00135	U	0.00271	U	0.00241	U	0.0147	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00177	U	0.00954	U	0.00741	U	0.00137	U	0.00275	U	0.00244	U	0.0149	U

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

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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 8: August 2020 Vadose Zone Soil Sampling Analytical Results: Other Constituents
Release Response Sampling Results and Action Plan - Second Quarter 2020
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				300.0 mg/kg		300.0 mg/kg		300.0 mg/kg		300.0 mg/kg		SW9045 SU		Moisture %		Moisture %		9012A mg/kg		SW9066 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-Square152-S-2-3-200806	08/06/2020	5.53	--	0.311	U	19.4	--	4.11	--	8.6	H	95.5	--	4.50	--	0.0377	J	0.433	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	22.7	--	0.330	U	68.4	--	3.55	--	9.0	H	89.9	--	10.1	--	0.0188	U	0.759	b
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	21.2	--	2.020	U	4,630	--	9.60	J	8.0	H	73.6	--	26.4	--	0.0231	U	0.566	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	6.96	--	0.333	U	35.3	--	4.28	--	8.9	H	89.2	--	10.8	--	0.0194	U	0.467	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	11.1	--	0.469	J	150	--	3.90	--	9.3	H	91.8	--	8.20	--	0.0405	J	0.554	b
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	8.08	--	0.375	U	60.6	--	7.51	--	8.8	H	79.1	--	20.9	--	0.0218	U	0.53	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	16.7	--	0.340	U	125	--	9.88	--	8.1	H	87.3	--	12.7	--	0.0195	U	0.729	b
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	6.69	--	0.347	U	62.7	--	9.69	--	8.9	H	85.6	--	14.4	--	0.0196	U	1.08	b
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	8.80	--	0.335	U	101	--	9.08	--	8.8	H	88.8	--	11.2	--	0.0200	U	0.47	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	16.1	--	0.342	U	286	--	9.47	--	8.6	H	86.9	--	13.1	--	0.0204	U	0.481	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	13.1	--	0.335	U	40.2	--	6.54	--	8.9	H	88.8	--	11.2	--	0.0184	U	0.568	b
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	13.7	--	0.343	U	262	--	5.45	--	8.8	H	86.6	--	13.4	--	0.0196	U	0.481	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	12.0	--	0.320	U	194	--	9.65	--	9.1	H	92.8	--	7.20	--	0.0191	U	0.45	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	12.5	--	0.337	U	270	--	7.56	--	8.9	H	88.2	--	11.8	--	0.0198	U	0.473	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	10.0	--	0.336	U	56.5	--	4.37	--	8.5	H	88.5	--	11.5	--	0.0199	U	0.469	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	7.01	--	0.343	U	62.3	--	5.13	--	8.9	H	86.5	--	13.5	--	0.0198	U	0.551	J
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	8.78	--	0.343	U	81.3	--	7.04	--	8.8	H	86.7	--	13.3	--	0.0205	U	0.483	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	4.68	--	0.340	U	48.2	--	9.38	--	9.0	H	87.4	--	12.6	--	0.0185	U	0.477	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	7.27	--	0.325	U	47.3	--	10.1	--	8.7	H	91.5	--	8.50	--	0.0194	U	0.457	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	8.92	--	0.329	U	105	--	7.59	--	8.9	H	90.3	--	9.70	--	0.0194	U	0.464	U

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

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

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

-- = not applicable
% = percent
CCV = continuing calibration verification
ICV = initial calibration verification
ID = identification
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
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.
U = Analyte was not detected at or above the SDL.

Table 8: August 2020 Vadose Zone Soil Sampling Analytical Results: Other Constituents
Release Response Sampling Results and Action Plan - Second Quarter 2020
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		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-Square152-S-2-3-200806	08/06/2020	162	--	0.0306	U	0.0429	U	0.0227	U	0.0000838	U	0.000276	U	0.000226	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	117	--	0.0306	U	0.0429	U	0.0227	U	0.000759	--	0.000289	U	0.000237	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	1,030	--	0.0303	U	0.0424	U	0.0224	U	0.00108	--	0.000375	U	0.000308	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	137	--	0.0282	U	0.0396	U	0.0209	U	0.000111	J	0.000303	U	0.000249	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	1,700	--	0.0305	U	0.0427	U	0.0225	U	0.0000855	U	0.000302	U	0.000248	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	111	--	0.0306	U	0.0429	U	0.0226	U	0.00194	--	0.000337	U	0.000277	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	158	--	0.0296	U	0.0415	U	0.0219	U	0.000090	U	0.000305	U	0.000251	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	135	--	0.0302	U	0.0423	U	0.0223	U	0.0000928	U	0.000298	U	0.000245	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	116	--	0.0297	U	0.0416	U	0.0220	U	0.0000910	U	0.000293	U	0.00024	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	158	--	0.0301	U	0.0422	U	0.0223	U	0.0000891	U	0.000305	U	0.000251	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	99.0	--	0.0302	U	0.0424	U	0.0224	U	0.000544	J	0.000306	U	0.000252	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	132	--	0.0303	U	0.0424	U	0.0224	U	0.0000922	U	0.000311	U	0.000255	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	144	--	0.0303	U	0.0425	U	0.0224	U	0.0000849	U	0.000296	U	0.000243	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	165	--	0.0286	U	0.0401	U	0.0212	U	0.000396	J	0.000298	U	0.000245	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	87.0	--	0.0296	U	0.0415	U	0.0219	U	0.0000863	U	0.000311	U	0.000255	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	125	--	0.0283	U	0.0397	U	0.0210	U	0.0000922	U	0.000313	U	0.000257	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	159	--	0.0288	U	0.0403	U	0.0213	U	0.0000927	U	0.000303	U	0.000249	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	127	--	0.0287	U	0.0401	U	0.0212	U	0.000093	U	0.000302	U	0.000248	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	117	--	0.0304	U	0.0425	U	0.0225	U	0.0000878	U	0.000291	U	0.000239	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	105	--	0.0283	U	0.0397	U	0.0209	U	0.0000873	U	0.000298	U	0.000245	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
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.
U = Analyte was not detected at or above the SDL.

Table 9: August 2020 Vadose Zone Soil Sampling Analytical Results: Radium
Release Response Sampling Results and Action Plan - Second Quarter 2020
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-Square152-S-2-3-200806	08/06/2020	0.520	--	0.286	--	0.807	--
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.738	--	0.119	U	0.857	--
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.846	--	-0.0113	U	0.835	--
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.857	--	0.169	U	1.03	--
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.670	--	0.472	--	1.14	--
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.656	--	0.269	U	0.92	--
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	1.220	--	0.137	U	1.35	--
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.763	--	0.391	--	1.15	--
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.546	--	0.010	U	0.557	--
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.400	--	0.280	--	0.680	--
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.829	--	0.226	U	1.060	--
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.392	--	0.112	U	0.504	--
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	1.040	--	0.065	U	1.10	--
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.620	--	-0.0659	U	0.554	--
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.967	--	-0.027	U	0.940	--
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	1.320	--	0.184	U	1.50	--
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	1.710	--	0.133	U	1.85	--
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	1.030	--	-0.133	U	0.899	--
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.880	--	0.220	--	1.10	--
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.966	--	0.058	U	1.02	--

- 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 10: August 2020 Vadose Zone Soil Sampling Analytical Results: Pesticides
Release Response Sampling Results and Action Plan - Second Quarter 2020
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent Method Units Background Soil Concentration				Aldrin 8081A mg/kg		Technical Mixture 8081A mg/kg		4,4-DDT 8081A mg/kg		Dieldrin 8081A mg/kg		Endosulfan 8081A mg/kg		Endosulfan II 8081A mg/kg		Endosulfan I 8081A mg/kg	
				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-Square152-S-2-3-200806	08/06/2020	0.00137	U	0.0245	U	0.00193	U	0.00145	U	0.00176	U	0.00158	U	0.00105	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00145	U	0.0259	U	0.00204	U	0.00154	U	0.00186	U	0.00167	U	0.00111	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00177	U	0.0317	U	0.0025	U	0.00188	U	0.00227	U	0.00204	U	0.00135	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00147	U	0.0262	U	0.00207	U	0.00156	U	0.00188	U	0.00169	U	0.00112	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00142	U	0.0254	U	0.00201	U	0.00151	U	0.00182	U	0.00164	U	0.00109	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00165	U	0.0295	U	0.00234	U	0.00175	U	0.00212	U	0.00191	U	0.00126	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00150	U	0.0268	U	0.00212	U	0.00159	U	0.00192	U	0.00173	U	0.00114	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00152	U	0.0272	U	0.00215	U	0.00161	U	0.00195	U	0.00175	U	0.00116	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00147	U	0.0263	U	0.00208	U	0.00156	U	0.00189	U	0.0017	U	0.00113	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00150	U	0.0269	U	0.00213	U	0.0016	U	0.00193	U	0.00173	U	0.00115	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00147	U	0.0263	U	0.00208	U	0.00156	U	0.00188	U	0.00169	U	0.00112	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00150	U	0.0269	U	0.00212	U	0.0016	U	0.00193	U	0.00173	U	0.00115	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00141	U	0.0252	U	0.00199	U	0.00149	U	0.00181	U	0.00162	U	0.00107	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00148	U	0.0264	U	0.00209	U	0.00157	U	0.00189	U	0.0017	U	0.00113	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00148	U	0.0264	U	0.00209	U	0.00157	U	0.0019	U	0.0017	U	0.00113	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00151	U	0.0269	U	0.00213	U	0.0016	U	0.00193	U	0.00174	U	0.00115	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00150	U	0.0269	U	0.00212	U	0.0016	U	0.00193	U	0.00173	U	0.00115	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00149	U	0.0267	U	0.00211	U	0.00159	U	0.00192	U	0.00172	U	0.00114	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00143	U	0.0255	U	0.00201	U	0.00151	U	0.00183	U	0.00164	U	0.00109	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00145	U	0.0259	U	0.00205	U	0.00154	U	0.00186	U	0.00167	U	0.00111	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
SDL = sample detection limit

Qualifiers:

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

Table 10: August 2020 Vadose Zone Soil Sampling Analytical Results: Pesticides
Release Response Sampling Results and Action Plan - Second Quarter 2020
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent Method Units Background Soil Concentration				Endrin 8081A mg/kg		Heptachlor 8081A mg/kg		(Hexachlorocyclohexane) 8081A mg/kg		(Hexachlorocyclohexane) 8081A mg/kg		delta BHC (Hexachlorocyclohexane) 8081A mg/kg		(Hexachlorocyclohexane) 8081A mg/kg	
				Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Landfarm Cell	Zone	Sample ID	Sample Date												
Cell 17	Vadose	Cell17-Square152-S-2-3-200806	08/06/2020	0.0016	U	0.000972	U	0.00105	U	0.00107	U	0.000889	U	0.000972	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00169	U	0.00103	U	0.00111	U	0.00113	U	0.000939	U	0.00103	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00207	U	0.00126	U	0.00135	U	0.00138	U	0.00115	U	0.00126	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00171	U	0.00104	U	0.00112	U	0.00114	U	0.000952	U	0.00104	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00166	U	0.00101	U	0.00109	U	0.00111	U	0.000923	U	0.00101	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00193	U	0.00117	U	0.00126	U	0.00129	U	0.00107	U	0.00117	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00175	U	0.00106	U	0.00114	U	0.00117	U	0.000972	U	0.00106	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00178	U	0.00108	U	0.00116	U	0.00118	U	0.000987	U	0.00108	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00172	U	0.00105	U	0.00113	U	0.00115	U	0.000956	U	0.00105	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00176	U	0.00107	U	0.00115	U	0.00117	U	0.000976	U	0.00107	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00172	U	0.00104	U	0.00112	U	0.00114	U	0.000954	U	0.00104	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00176	U	0.00107	U	0.00115	U	0.00117	U	0.000976	U	0.00107	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00164	U	0.001	U	0.00107	U	0.00110	U	0.000914	U	0.00100	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00173	U	0.00105	U	0.00113	U	0.00115	U	0.000958	U	0.00105	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00173	U	0.00105	U	0.00113	U	0.00115	U	0.000959	U	0.00105	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00176	U	0.00107	U	0.00115	U	0.00117	U	0.000977	U	0.00107	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00176	U	0.00107	U	0.00115	U	0.00117	U	0.000976	U	0.00107	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00175	U	0.00106	U	0.00114	U	0.00116	U	0.000970	U	0.00106	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00167	U	0.00101	U	0.00109	U	0.00111	U	0.000926	U	0.00101	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00169	U	0.00103	U	0.00111	U	0.00113	U	0.000940	U	0.00103	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
SDL = sample detection limit

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

Table 10: August 2020 Vadose Zone Soil Sampling Analytical Results: Pesticides
Release Response Sampling Results and Action Plan - Second Quarter 2020
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent Method Units Background Soil Concentration				Toxaphene 8081A mg/kg		Prometon 8270D mg/kg		Hexachlorocyclopentadiene 8270C mg/kg	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square152-S-2-3-200806	08/06/2020	0.0764	U	0.0122	U	0.00482	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.0808	U	0.0133	U	0.00510	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.0989	U	0.0157	U	0.00623	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.0819	U	0.0134	U	0.00514	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.0794	U	0.0128	U	0.00500	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.0923	U	0.0151	U	0.00579	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.0836	U	0.0137	U	0.00527	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.0849	U	0.0140	U	0.00537	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.0823	U	0.0132	U	0.00516	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.0840	U	0.0137	U	0.00530	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.0820	U	0.0130	U	0.00517	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.0839	U	0.0135	U	0.00532	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.0786	U	0.0128	U	0.00494	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.0824	U	0.0135	U	0.00520	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.0825	U	0.0134	U	0.00518	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.0840	U	0.0135	U	0.00532	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.0840	U	0.0136	U	0.00530	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.0834	U	0.0135	U	0.00526	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.0796	U	0.0130	U	0.00502	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.0808	U	0.0132	U	0.00509	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.

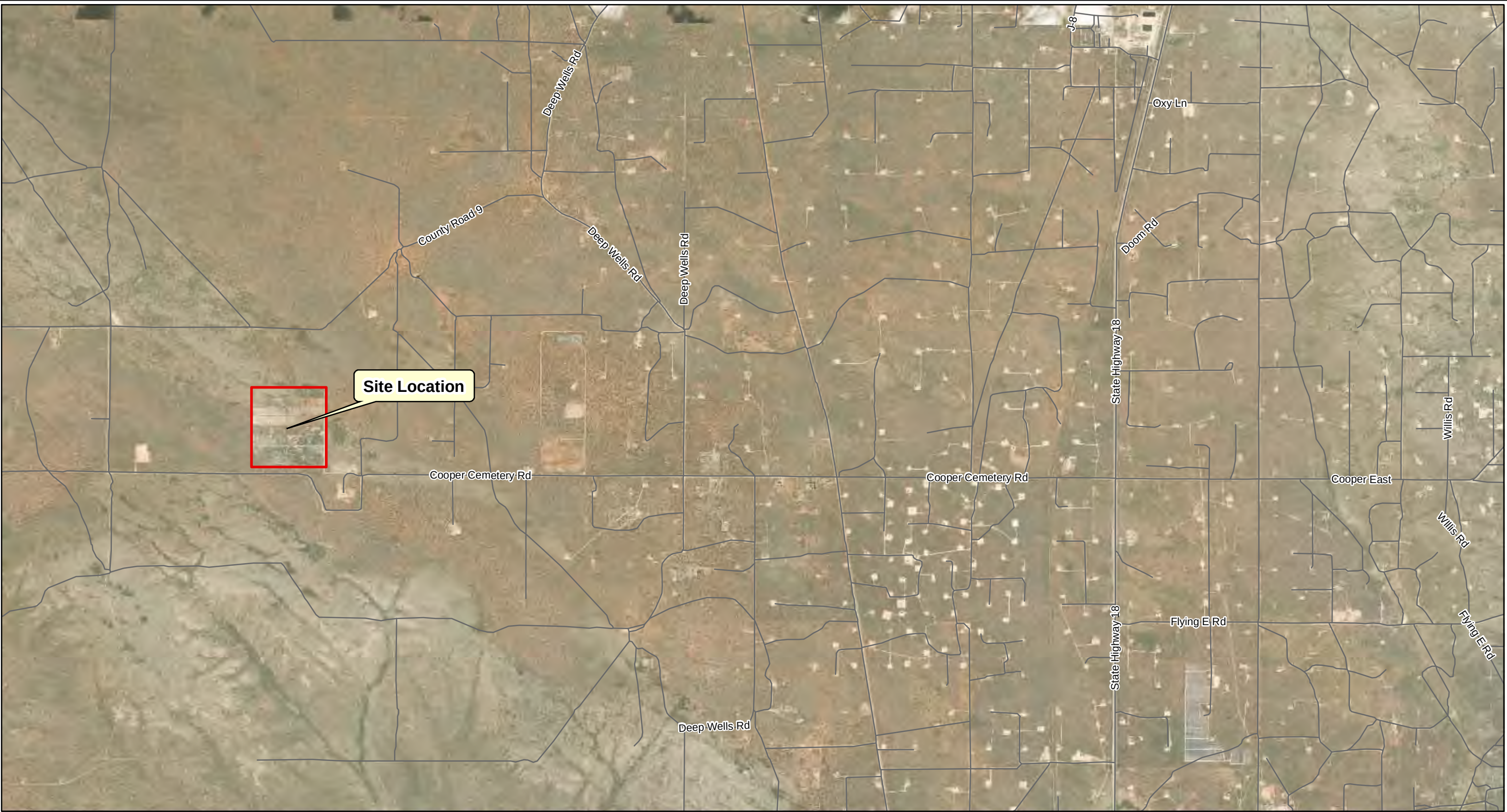
-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
NMAC = New Mexico Administrative Code
SDL = sample detection limit

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

FIGURES

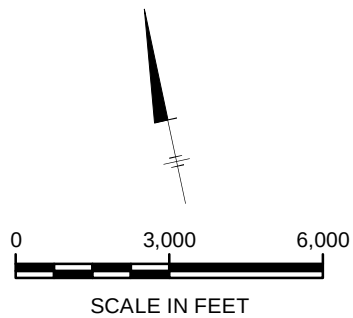


PATH: Z:\GIS\PROJECTS\ENV\CHEVRON_JAL-LANDFARM\GIS\MXD\FIGURE-1_JAL LANDFARM_2018.MXD SAVED: 1/28/2019 BY: AV00976

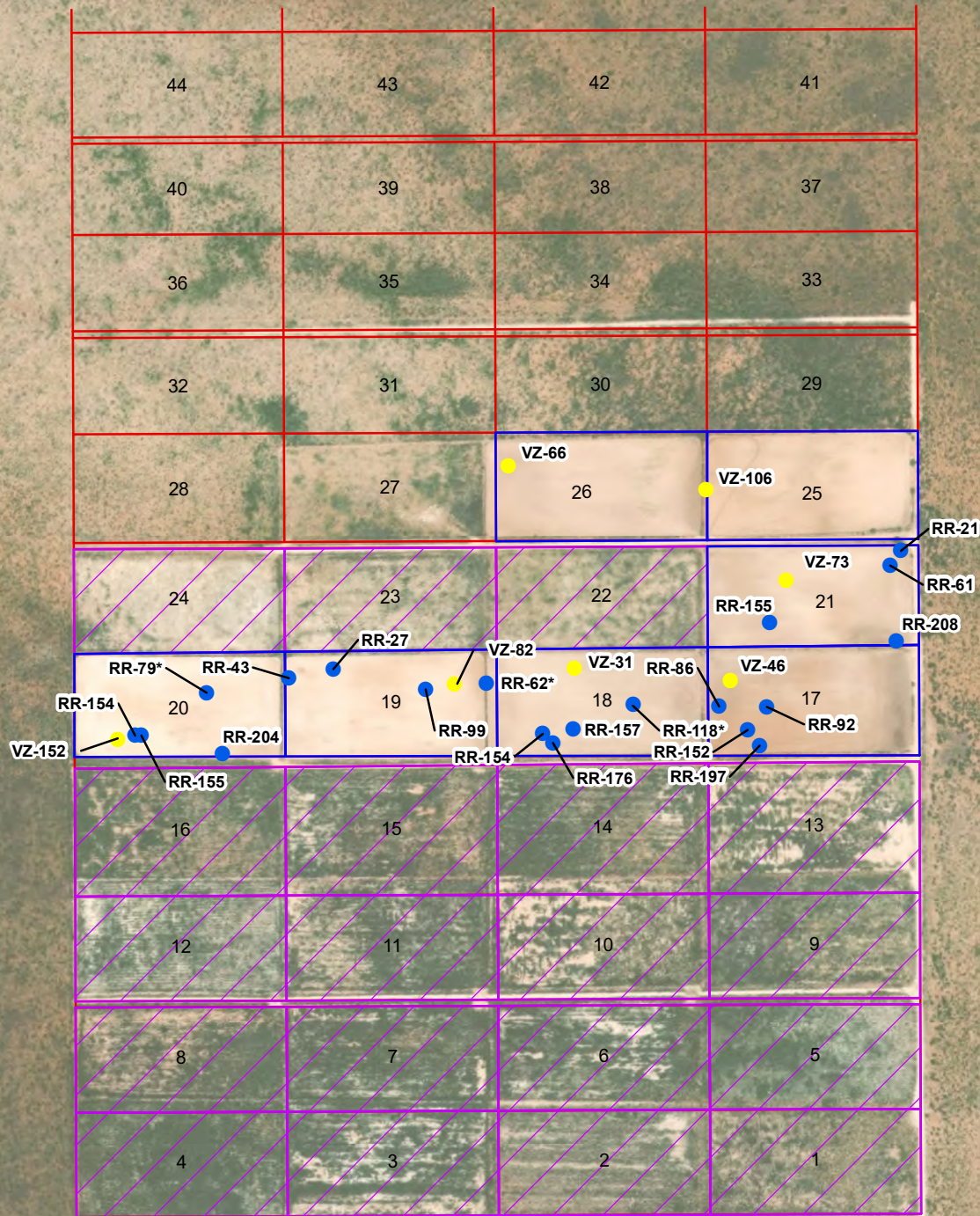


LEGEND

 Landfarm Boundary



CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY JAL LANDFARM NM-02-0012 LEA COUNTY, NEW MEXICO	
RELEASE RESPONSE SAMPLING RESULTS AND ACTION PLAN	
SITE LOCATION MAP	
 ARCADIS Design & Consultancy for natural and built assets	FIGURE 1

**LEGEND**

- Release Response Sample Locations (August 2020)
- Vadose Zone Sample Locations (June 2020)
- * The coordinates were inadvertently not collected. The sample location is approximate.

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

0 300 600
SCALE IN FEET

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

SECOND QUARTER 2020 AND RELEASE RESPONSE SAMPLE LOCATIONS

ARCADIS Design & Consultancy
for natural and
built assets

FIGURE

2

APPENDIX A

June 2020 Laboratory Report



Environment Testing
America

ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-207351-1

Client Project/Site: Chevron - Jal Land Farm Soils

For:

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

Attn: Alison Schaffer

Authorized for release by:
7/14/2020 8:48:01 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

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-207351-1

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Case Narrative

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

Job ID: 600-207351-1

Job ID: 600-207351-1

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative
600-207351-1

Comments

No additional comments.

Receipt

The samples were received on 6/27/2020 11:15 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2° C.

GC/MS VOA

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

GC VOA

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

GC Semi VOA

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

General Chemistry

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

Industrial Hygiene

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

Organic Prep

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

Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-207351-1

Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU

Protocol References:

ASTM = ASTM International

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

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

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

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-207351-1

Project/Site: Chevron - Jal Land Farm Soils

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-207351-1	Cell 20-Square 152-S-2-3200625	Solid	06/25/20 10:15	06/27/20 11:15	
600-207351-2	Cell 19-Square 82-S-2-32-00625	Solid	06/25/20 10:50	06/27/20 11:15	
600-207351-3	Cell 18-Square 31-S-2-3-200625	Solid	06/25/20 11:40	06/27/20 11:15	
600-207351-4	Cell 17-Square 46-S-2-3-200625	Solid	06/25/20 12:00	06/27/20 11:15	
600-207351-5	Cell 21-Square 73-S-2-3-200625	Solid	06/25/20 12:25	06/27/20 11:15	
600-207351-6	Cell 25-Square 25-S-2-3-200625	Solid	06/25/20 12:50	06/27/20 11:15	
600-207351-7	Cell 26-Square 66-S-2-3-200625	Solid	06/25/20 13:15	06/27/20 11:15	
600-207351-8	Cell 20-Treatment-S-6-200626	Solid	06/26/20 08:45	06/27/20 11:15	
600-207351-9	Cell 19-Treatment-S-6-200626	Solid	06/26/20 09:05	06/27/20 11:15	
600-207351-10	Cell 18-Treatment-S-6-200626	Solid	06/26/20 09:40	06/27/20 11:15	
600-207351-11	Cell 17-Treatment-S-6-200626	Solid	06/26/20 09:55	06/27/20 11:15	
600-207351-12	Cell 21-Treatment-S-6-200626	Solid	06/26/20 10:30	06/27/20 11:15	
600-207351-13	Cell 25-Treatment-S-6-200626	Solid	06/26/20 10:50	06/27/20 11:15	
600-207351-14	Cell 26-Treatment-S-6-200626	Solid	06/26/20 11:15	06/27/20 11:15	

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 600-207351-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 20-Square 152-S-2-3200625

Lab Sample ID: 600-207351-1

Date Collected: 06/25/20 10:15

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 71.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000843	U	0.00669	0.000843	mg/Kg	☼	06/27/20 14:45	06/27/20 18:36	1
Toluene	0.00185	U	0.00669	0.00185	mg/Kg	☼	06/27/20 14:45	06/27/20 18:36	1
o-Xylene	0.00151	U	0.00669	0.00151	mg/Kg	☼	06/27/20 14:45	06/27/20 18:36	1
Ethylbenzene	0.00136	U	0.00669	0.00136	mg/Kg	☼	06/27/20 14:45	06/27/20 18:36	1
Xylenes, Total	0.00151	U	0.00669	0.00151	mg/Kg	☼	06/27/20 14:45	06/27/20 18:36	1
m-Xylene & p-Xylene	0.00203	U	0.00669	0.00203	mg/Kg	☼	06/27/20 14:45	06/27/20 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		61 - 130	06/27/20 14:45	06/27/20 18:36	1
Dibromofluoromethane	95		68 - 140	06/27/20 14:45	06/27/20 18:36	1
Toluene-d8 (Surr)	85		50 - 130	06/27/20 14:45	06/27/20 18:36	1
4-Bromofluorobenzene	93		57 - 140	06/27/20 14:45	06/27/20 18:36	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.759	U	1.30	0.759	mg/Kg	☼	06/30/20 08:00	06/30/20 11:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		70 - 130				06/30/20 08:00	06/30/20 11:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.31	J	6.95	2.38	mg/Kg	☼	06/30/20 07:34	07/02/20 00:00	1
C28-C36	6.95	U	6.95	6.95	mg/Kg	☼	06/30/20 07:34	07/02/20 00:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	135		60 - 140				06/30/20 07:34	07/02/20 00:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.58	J	5.59	0.746	mg/Kg	☼		07/10/20 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.4		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	71.6		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 19-Square 82-S-2-32-00625

Lab Sample ID: 600-207351-2

Date Collected: 06/25/20 10:50

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 70.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000956	U	0.00758	0.000956	mg/Kg	☼	06/27/20 14:45	06/27/20 19:00	1
Toluene	0.00209	U	0.00758	0.00209	mg/Kg	☼	06/27/20 14:45	06/27/20 19:00	1
o-Xylene	0.00171	U	0.00758	0.00171	mg/Kg	☼	06/27/20 14:45	06/27/20 19:00	1
Ethylbenzene	0.00155	U	0.00758	0.00155	mg/Kg	☼	06/27/20 14:45	06/27/20 19:00	1
Xylenes, Total	0.00171	U	0.00758	0.00171	mg/Kg	☼	06/27/20 14:45	06/27/20 19:00	1
m-Xylene & p-Xylene	0.00231	U	0.00758	0.00231	mg/Kg	☼	06/27/20 14:45	06/27/20 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		61 - 130	06/27/20 14:45	06/27/20 19:00	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 600-207351-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 19-Square 82-S-2-32-00625

Lab Sample ID: 600-207351-2

Date Collected: 06/25/20 10:50

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 70.4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	94		68 - 140	06/27/20 14:45	06/27/20 19:00	1
Toluene-d8 (Surr)	85		50 - 130	06/27/20 14:45	06/27/20 19:00	1
4-Bromofluorobenzene	90		57 - 140	06/27/20 14:45	06/27/20 19:00	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.820	U	1.40	0.820	mg/Kg	☼	06/30/20 08:00	06/30/20 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		70 - 130	06/30/20 08:00	06/30/20 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	6.10	J	7.09	2.42	mg/Kg	☼	06/30/20 07:34	07/02/20 00:33	1
C28-C36	11.4		7.09	7.09	mg/Kg	☼	06/30/20 07:34	07/02/20 00:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	140		60 - 140	06/30/20 07:34	07/02/20 00:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.50	J	5.68	0.758	mg/Kg	☼		07/10/20 19:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	29.6		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	70.4		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 18-Square 31-S-2-3-200625

Lab Sample ID: 600-207351-3

Date Collected: 06/25/20 11:40

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 76.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000851	U	0.00675	0.000851	mg/Kg	☼	06/30/20 10:59	06/30/20 12:11	1
Toluene	0.00186	U	0.00675	0.00186	mg/Kg	☼	06/30/20 10:59	06/30/20 12:11	1
o-Xylene	0.00153	U	0.00675	0.00153	mg/Kg	☼	06/30/20 10:59	06/30/20 12:11	1
Ethylbenzene	0.00138	U	0.00675	0.00138	mg/Kg	☼	06/30/20 10:59	06/30/20 12:11	1
Xylenes, Total	0.00153	U	0.00675	0.00153	mg/Kg	☼	06/30/20 10:59	06/30/20 12:11	1
m-Xylene & p-Xylene	0.00205	U	0.00675	0.00205	mg/Kg	☼	06/30/20 10:59	06/30/20 12:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		61 - 130	06/30/20 10:59	06/30/20 12:11	1
Dibromofluoromethane	95		68 - 140	06/30/20 10:59	06/30/20 12:11	1
Toluene-d8 (Surr)	85		50 - 130	06/30/20 10:59	06/30/20 12:11	1
4-Bromofluorobenzene	95		57 - 140	06/30/20 10:59	06/30/20 12:11	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.752	U	1.28	0.752	mg/Kg	☼	06/30/20 08:00	06/30/20 12:24	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 600-207351-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-Square 31-S-2-3-200625

Lab Sample ID: 600-207351-3

Date Collected: 06/25/20 11:40

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 76.0

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		70 - 130				06/30/20 08:00	06/30/20 12:24	1
Method: 8015B - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.24	U	6.54	2.24	mg/Kg	☼	06/30/20 07:34	07/02/20 01:06	1
C28-C36	13.6		6.54	6.54	mg/Kg	☼	06/30/20 07:34	07/02/20 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	72		60 - 140				06/30/20 07:34	07/02/20 01:06	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	163		5.26	0.703	mg/Kg	☼		07/10/20 17:03	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.0		1.0	1.0	%	—		06/29/20 10:38	1
Percent Solids	76.0		1.0	1.0	%	—		06/29/20 10:38	1

Client Sample ID: Cell 17-Square 46-S-2-3-200625

Lab Sample ID: 600-207351-4

Date Collected: 06/25/20 12:00

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 79.9

Method: 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000738	U	0.00586	0.000738	mg/Kg	☼	06/30/20 10:59	06/30/20 12:34	1
Toluene	0.00162	U	0.00586	0.00162	mg/Kg	☼	06/30/20 10:59	06/30/20 12:34	1
o-Xylene	0.00132	U	0.00586	0.00132	mg/Kg	☼	06/30/20 10:59	06/30/20 12:34	1
Ethylbenzene	0.00120	U	0.00586	0.00120	mg/Kg	☼	06/30/20 10:59	06/30/20 12:34	1
Xylenes, Total	0.00132	U	0.00586	0.00132	mg/Kg	☼	06/30/20 10:59	06/30/20 12:34	1
m-Xylene & p-Xylene	0.00178	U	0.00586	0.00178	mg/Kg	☼	06/30/20 10:59	06/30/20 12:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		61 - 130				06/30/20 10:59	06/30/20 12:34	1
Dibromofluoromethane	94		68 - 140				06/30/20 10:59	06/30/20 12:34	1
Toluene-d8 (Surr)	86		50 - 130				06/30/20 10:59	06/30/20 12:34	1
4-Bromofluorobenzene	90		57 - 140				06/30/20 10:59	06/30/20 12:34	1
Method: 8015B - Gasoline Range Organics - (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.743	U	1.27	0.743	mg/Kg	☼	06/30/20 08:00	06/30/20 12:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		70 - 130				06/30/20 08:00	06/30/20 12:50	1
Method: 8015B - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.14	U	6.25	2.14	mg/Kg	☼	06/30/20 07:34	07/02/20 01:40	1
C28-C36	6.25	U	6.25	6.25	mg/Kg	☼	06/30/20 07:34	07/02/20 01:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	77		60 - 140				06/30/20 07:34	07/02/20 01:40	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-207351-1

Client Sample ID: Cell 17-Square 46-S-2-3-200625

Lab Sample ID: 600-207351-4

Date Collected: 06/25/20 12:00

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 79.9

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	367		10.0	1.34	mg/Kg	☼		07/10/20 15:15	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.1		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	79.9		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 21-Square 73-S-2-3-200625

Lab Sample ID: 600-207351-5

Date Collected: 06/25/20 12:25

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 70.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000956	U	0.00759	0.000956	mg/Kg	☼	06/30/20 10:59	06/30/20 12:58	1
Toluene	0.00209	U	0.00759	0.00209	mg/Kg	☼	06/30/20 10:59	06/30/20 12:58	1
o-Xylene	0.00171	U	0.00759	0.00171	mg/Kg	☼	06/30/20 10:59	06/30/20 12:58	1
Ethylbenzene	0.00155	U	0.00759	0.00155	mg/Kg	☼	06/30/20 10:59	06/30/20 12:58	1
Xylenes, Total	0.00171	U	0.00759	0.00171	mg/Kg	☼	06/30/20 10:59	06/30/20 12:58	1
m-Xylene & p-Xylene	0.00231	U	0.00759	0.00231	mg/Kg	☼	06/30/20 10:59	06/30/20 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		61 - 130	06/30/20 10:59	06/30/20 12:58	1
Dibromofluoromethane	95		68 - 140	06/30/20 10:59	06/30/20 12:58	1
Toluene-d8 (Surr)	84		50 - 130	06/30/20 10:59	06/30/20 12:58	1
4-Bromofluorobenzene	95		57 - 140	06/30/20 10:59	06/30/20 12:58	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.853	U	1.46	0.853	mg/Kg	☼	06/30/20 08:00	06/30/20 13:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		70 - 130				06/30/20 08:00	06/30/20 13:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	8.01		7.02	2.40	mg/Kg	☼	06/30/20 07:34	07/02/20 02:13	1
C28-C36	7.02	U	7.02	7.02	mg/Kg	☼	06/30/20 07:34	07/02/20 02:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	71		60 - 140				06/30/20 07:34	07/02/20 02:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.04	J	5.64	0.754	mg/Kg	☼		07/10/20 18:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	29.1		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	70.9		1.0	1.0	%			06/29/20 10:38	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-207351-1

Client Sample ID: Cell 25-Square 25-S-2-3-200625

Lab Sample ID: 600-207351-6

Date Collected: 06/25/20 12:50

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 78.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000796	U	0.00632	0.000796	mg/Kg	☼	06/30/20 10:59	06/30/20 13:21	1
Toluene	0.00174	U	0.00632	0.00174	mg/Kg	☼	06/30/20 10:59	06/30/20 13:21	1
o-Xylene	0.00143	U	0.00632	0.00143	mg/Kg	☼	06/30/20 10:59	06/30/20 13:21	1
Ethylbenzene	0.00129	U	0.00632	0.00129	mg/Kg	☼	06/30/20 10:59	06/30/20 13:21	1
Xylenes, Total	0.00143	U	0.00632	0.00143	mg/Kg	☼	06/30/20 10:59	06/30/20 13:21	1
m-Xylene & p-Xylene	0.00192	U	0.00632	0.00192	mg/Kg	☼	06/30/20 10:59	06/30/20 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		61 - 130	06/30/20 10:59	06/30/20 13:21	1
Dibromofluoromethane	98		68 - 140	06/30/20 10:59	06/30/20 13:21	1
Toluene-d8 (Surr)	84		50 - 130	06/30/20 10:59	06/30/20 13:21	1
4-Bromofluorobenzene	92		57 - 140	06/30/20 10:59	06/30/20 13:21	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.734	U	1.25	0.734	mg/Kg	☼	06/30/20 08:00	06/30/20 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		70 - 130	06/30/20 08:00	06/30/20 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.15	U	6.30	2.15	mg/Kg	☼	06/30/20 07:34	07/02/20 02:47	1
C28-C36	6.30	U	6.30	6.30	mg/Kg	☼	06/30/20 07:34	07/02/20 02:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	70		60 - 140	06/30/20 07:34	07/02/20 02:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.77	J	5.07	0.676	mg/Kg	☼		07/10/20 19:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.1		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	78.9		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 26-Square 66-S-2-3-200625

Lab Sample ID: 600-207351-7

Date Collected: 06/25/20 13:15

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 76.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000882	U	0.00700	0.000882	mg/Kg	☼	06/30/20 10:59	06/30/20 13:45	1
Toluene	0.00193	U	0.00700	0.00193	mg/Kg	☼	06/30/20 10:59	06/30/20 13:45	1
o-Xylene	0.00158	U	0.00700	0.00158	mg/Kg	☼	06/30/20 10:59	06/30/20 13:45	1
Ethylbenzene	0.00143	U	0.00700	0.00143	mg/Kg	☼	06/30/20 10:59	06/30/20 13:45	1
Xylenes, Total	0.00158	U	0.00700	0.00158	mg/Kg	☼	06/30/20 10:59	06/30/20 13:45	1
m-Xylene & p-Xylene	0.00213	U	0.00700	0.00213	mg/Kg	☼	06/30/20 10:59	06/30/20 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		61 - 130	06/30/20 10:59	06/30/20 13:45	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 600-207351-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 66-S-2-3-200625

Lab Sample ID: 600-207351-7

Date Collected: 06/25/20 13:15

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 76.6

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	98		68 - 140	06/30/20 10:59	06/30/20 13:45	1
Toluene-d8 (Surr)	86		50 - 130	06/30/20 10:59	06/30/20 13:45	1
4-Bromofluorobenzene	95		57 - 140	06/30/20 10:59	06/30/20 13:45	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.745	U	1.27	0.745	mg/Kg	☼	06/30/20 08:00	06/30/20 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		70 - 130	06/30/20 08:00	06/30/20 14:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.23	U	6.51	2.23	mg/Kg	☼	06/30/20 07:34	07/02/20 03:20	1
C28-C36	6.51	U	6.51	6.51	mg/Kg	☼	06/30/20 07:34	07/02/20 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	73		60 - 140	06/30/20 07:34	07/02/20 03:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.81	J	5.22	0.697	mg/Kg	☼		07/10/20 18:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.4		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	76.6		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 20-Treatment-S-6-200626

Lab Sample ID: 600-207351-8

Date Collected: 06/26/20 08:45

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 95.2

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.600	U	1.02	0.600	mg/Kg	☼	06/30/20 08:00	06/30/20 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		70 - 130	06/30/20 08:00	06/30/20 14:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	13.2		5.24	1.79	mg/Kg	☼	06/30/20 07:34	07/02/20 05:01	1
C28-C36	63.5		5.24	5.24	mg/Kg	☼	06/30/20 07:34	07/02/20 05:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	79		60 - 140	06/30/20 07:34	07/02/20 05:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.23		4.20	0.561	mg/Kg	☼		07/10/20 13:54	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-207351-1

Client Sample ID: Cell 20-Treatment-S-6-200626

Lab Sample ID: 600-207351-8

Date Collected: 06/26/20 08:45

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 95.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.8		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	95.2		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 19-Treatment-S-6-200626

Lab Sample ID: 600-207351-9

Date Collected: 06/26/20 09:05

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 97.0

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.625	U	1.07	0.625	mg/Kg	☼	06/30/20 08:00	06/30/20 14:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	98		70 - 130				06/30/20 08:00	06/30/20 14:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	25.7		5.14	1.76	mg/Kg	☼	06/30/20 07:34	07/02/20 05:34	1
C28-C36	125		5.14	5.14	mg/Kg	☼	06/30/20 07:34	07/02/20 05:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	112		60 - 140				06/30/20 07:34	07/02/20 05:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.38	J	4.12	0.550	mg/Kg	☼		07/10/20 16:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.0		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	97.0		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 18-Treatment-S-6-200626

Lab Sample ID: 600-207351-10

Date Collected: 06/26/20 09:40

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 98.3

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.634	U	1.08	0.634	mg/Kg	☼	06/30/20 08:00	06/30/20 15:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	103		70 - 130				06/30/20 08:00	06/30/20 15:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	42.7		5.06	1.73	mg/Kg	☼	06/30/20 07:34	07/02/20 06:08	1
C28-C36	173		5.06	5.06	mg/Kg	☼	06/30/20 07:34	07/02/20 06:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	111		60 - 140				06/30/20 07:34	07/02/20 06:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.29	J	4.07	0.543	mg/Kg	☼		07/10/20 14:35	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-207351-1

Client Sample ID: Cell 18-Treatment-S-6-200626

Lab Sample ID: 600-207351-10

Date Collected: 06/26/20 09:40

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 98.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.7		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	98.3		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 17-Treatment-S-6-200626

Lab Sample ID: 600-207351-11

Date Collected: 06/26/20 09:55

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 98.0

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.618	U	1.05	0.618	mg/Kg	☼	06/30/20 08:00	06/30/20 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		70 - 130				06/30/20 08:00	06/30/20 16:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	26.9		5.09	1.74	mg/Kg	☼	06/30/20 07:34	07/02/20 06:41	1
C28-C36	111		5.09	5.09	mg/Kg	☼	06/30/20 07:34	07/02/20 06:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	80		60 - 140				06/30/20 07:34	07/02/20 06:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.7		4.08	0.545	mg/Kg	☼		07/10/20 16:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.0		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	98.0		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 21-Treatment-S-6-200626

Lab Sample ID: 600-207351-12

Date Collected: 06/26/20 10:30

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 98.3

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.618	U	1.05	0.618	mg/Kg	☼	06/30/20 08:00	06/30/20 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		70 - 130				06/30/20 08:00	06/30/20 16:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	118		10.1	3.46	mg/Kg	☼	06/30/20 07:34	07/03/20 00:40	2
C28-C36	429		10.1	10.1	mg/Kg	☼	06/30/20 07:34	07/03/20 00:40	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	108		60 - 140				06/30/20 07:34	07/03/20 00:40	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.74	J	4.07	0.543	mg/Kg	☼		07/10/20 12:43	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-207351-1

Client Sample ID: Cell 21-Treatment-S-6-200626

Lab Sample ID: 600-207351-12

Date Collected: 06/26/20 10:30

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 98.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.7		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	98.3		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 25-Treatment-S-6-200626

Lab Sample ID: 600-207351-13

Date Collected: 06/26/20 10:50

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 97.7

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.598	U	1.02	0.598	mg/Kg	☼	06/30/20 08:00	06/30/20 17:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		70 - 130				06/30/20 08:00	06/30/20 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.74	U	5.09	1.74	mg/Kg	☼	06/30/20 07:34	07/02/20 07:46	1
C28-C36	5.09	U	5.09	5.09	mg/Kg	☼	06/30/20 07:34	07/02/20 07:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	116		60 - 140				06/30/20 07:34	07/02/20 07:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.0		4.09	0.546	mg/Kg	☼		07/10/20 18:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.3		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	97.7		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 26-Treatment-S-6-200626

Lab Sample ID: 600-207351-14

Date Collected: 06/26/20 11:15

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 97.8

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.584	U	0.997	0.584	mg/Kg	☼	06/30/20 08:00	06/30/20 18:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	105		70 - 130				06/30/20 08:00	06/30/20 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.74	U	5.08	1.74	mg/Kg	☼	06/30/20 09:18	07/02/20 08:18	1
C28-C36	5.08	U	5.08	5.08	mg/Kg	☼	06/30/20 09:18	07/02/20 08:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	113		60 - 140				06/30/20 09:18	07/02/20 08:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.57	J	4.09	0.546	mg/Kg	☼		07/10/20 14:14	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-207351-1

Client Sample ID: Cell 26-Treatment-S-6-200626
Date Collected: 06/26/20 11:15
Date Received: 06/27/20 11:15

Lab Sample ID: 600-207351-14
Matrix: Solid
Percent Solids: 97.8

General Chemistry										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Moisture	2.1		1.0	1.0	%			06/29/20 10:38	1	
Percent Solids	97.9		1.0	1.0	%			06/29/20 10:38	1	

Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 600-207351-1

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 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.

N1 MS, MSD: Spike recovery exceeds upper or lower control limits.

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 TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-207351-1

Project/Site: Chevron - Jal Land Farm Soils

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 (61-130)	DBFM (68-140)	TOL (50-130)	BFB (57-140)
600-207351-1	Cell 20-Square 152-S-2-3200625	101	95	85	93
600-207351-2	Cell 19-Square 82-S-2-32-00625	101	94	85	90
600-207351-3	Cell 18-Square 31-S-2-3-200625	105	95	85	95
600-207351-4	Cell 17-Square 46-S-2-3-200625	103	94	86	90
600-207351-5	Cell 21-Square 73-S-2-3-200625	100	95	84	95
600-207351-6	Cell 25-Square 25-S-2-3-200625	100	98	84	92
600-207351-7	Cell 26-Square 66-S-2-3-200625	103	98	86	95
LCS 600-297653/3	Lab Control Sample	100	104	91	102
LCS 600-297766/3	Lab Control Sample	110	109	96	106
LCSD 600-297653/4	Lab Control Sample Dup	103	108	96	103
LCSD 600-297766/4	Lab Control Sample Dup	108	108	95	105
MB 600-297653/6	Method Blank	106	97	87	99
MB 600-297766/6	Method Blank	112	100	87	94

Surrogate Legend

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

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TFT1 (70-130)			
600-207351-1	Cell 20-Square 152-S-2-3200625	87			
600-207351-2	Cell 19-Square 82-S-2-32-00625	89			
600-207351-3	Cell 18-Square 31-S-2-3-200625	93			
600-207351-4	Cell 17-Square 46-S-2-3-200625	95			
600-207351-5	Cell 21-Square 73-S-2-3-200625	90			
600-207351-6	Cell 25-Square 25-S-2-3-200625	96			
600-207351-7	Cell 26-Square 66-S-2-3-200625	96			
600-207351-8	Cell 20-Treatment-S-6-200626	94			
600-207351-9	Cell 19-Treatment-S-6-200626	98			
600-207351-10	Cell 18-Treatment-S-6-200626	103			
600-207351-11	Cell 17-Treatment-S-6-200626	104			
600-207351-12	Cell 21-Treatment-S-6-200626	104			
600-207351-13	Cell 25-Treatment-S-6-200626	104			
600-207351-14	Cell 26-Treatment-S-6-200626	105			
LCS 600-297771/1-A	Lab Control Sample	98			

Eurofins TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-207351-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TFT1 (70-130)	
LCSD 600-297771/2-A	Lab Control Sample Dup	98	
MB 600-297771/3-A	Method Blank	96	
Surrogate Legend			
TFT = a,a,a-Trifluorotoluene			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTPH1 (60-140)	
600-207351-1	Cell 20-Square 152-S-2-3200625	135	
600-207351-2	Cell 19-Square 82-S-2-32-00625	140	
600-207351-3	Cell 18-Square 31-S-2-3-200625	72	
600-207351-4	Cell 17-Square 46-S-2-3-200625	77	
600-207351-5	Cell 21-Square 73-S-2-3-200625	71	
600-207351-6	Cell 25-Square 25-S-2-3-200625	70	
600-207351-7	Cell 26-Square 66-S-2-3-200625	73	
600-207351-8	Cell 20-Treatment-S-6-200626	79	
600-207351-9	Cell 19-Treatment-S-6-200626	112	
600-207351-10	Cell 18-Treatment-S-6-200626	111	
600-207351-11	Cell 17-Treatment-S-6-200626	80	
600-207351-12 - DL	Cell 21-Treatment-S-6-200626	108	
600-207351-13	Cell 25-Treatment-S-6-200626	116	
600-207351-14	Cell 26-Treatment-S-6-200626	113	
LCS 600-297764/2-A	Lab Control Sample	97	
LCSD 600-297764/3-A	Lab Control Sample Dup	127	
MB 600-297764/1-A	Method Blank	71	
Surrogate Legend			
OTPH = o-Terphenyl			

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 600-207351-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-297653/6

Matrix: Solid

Analysis Batch: 297653

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			06/27/20 11:15	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			06/27/20 11:15	1
o-Xylene	0.00113	U	0.00500	0.00113	mg/Kg			06/27/20 11:15	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			06/27/20 11:15	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			06/27/20 11:15	1
m-Xylene & p-Xylene	0.00152	U	0.00500	0.00152	mg/Kg			06/27/20 11:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		61 - 130		06/27/20 11:15	1
Dibromofluoromethane	97		68 - 140		06/27/20 11:15	1
Toluene-d8 (Surr)	87		50 - 130		06/27/20 11:15	1
4-Bromofluorobenzene	99		57 - 140		06/27/20 11:15	1

Lab Sample ID: LCS 600-297653/3

Matrix: Solid

Analysis Batch: 297653

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	0.05118		mg/Kg		102	70 - 131
Toluene	0.0500	0.04809		mg/Kg		96	67 - 130
o-Xylene	0.0500	0.05155		mg/Kg		103	62 - 130
Ethylbenzene	0.0500	0.05111		mg/Kg		102	66 - 130
Xylenes, Total	0.100	0.1040		mg/Kg		104	63 - 130
m-Xylene & p-Xylene	0.0500	0.05245		mg/Kg		105	64 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		61 - 130
Dibromofluoromethane	104		68 - 140
Toluene-d8 (Surr)	91		50 - 130
4-Bromofluorobenzene	102		57 - 140

Lab Sample ID: LCSD 600-297653/4

Matrix: Solid

Analysis Batch: 297653

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	0.05393		mg/Kg		108	70 - 131	5	30
Toluene	0.0500	0.05216		mg/Kg		104	67 - 130	8	30
o-Xylene	0.0500	0.05661		mg/Kg		113	62 - 130	9	30
Ethylbenzene	0.0500	0.05572		mg/Kg		111	66 - 130	9	30
Xylenes, Total	0.100	0.1136		mg/Kg		114	63 - 130	9	30
m-Xylene & p-Xylene	0.0500	0.05696		mg/Kg		114	64 - 130	8	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		61 - 130
Dibromofluoromethane	108		68 - 140
Toluene-d8 (Surr)	96		50 - 130

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 600-207351-1

Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 600-297653/4

Matrix: Solid

Analysis Batch: 297653

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	103		57 - 140

Lab Sample ID: MB 600-297766/6

Matrix: Solid

Analysis Batch: 297766

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			06/30/20 11:48	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			06/30/20 11:48	1
o-Xylene	0.00113	U	0.00500	0.00113	mg/Kg			06/30/20 11:48	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			06/30/20 11:48	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			06/30/20 11:48	1
m-Xylene & p-Xylene	0.00152	U	0.00500	0.00152	mg/Kg			06/30/20 11:48	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4 (Surr)	112		61 - 130		06/30/20 11:48	1			
Dibromofluoromethane	100		68 - 140		06/30/20 11:48	1			
Toluene-d8 (Surr)	87		50 - 130		06/30/20 11:48	1			
4-Bromofluorobenzene	94		57 - 140		06/30/20 11:48	1			

Lab Sample ID: LCS 600-297766/3

Matrix: Solid

Analysis Batch: 297766

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS					%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.0500	0.04716		mg/Kg		94	70 - 131		
Toluene	0.0500	0.04569		mg/Kg		91	67 - 130		
o-Xylene	0.0500	0.04954		mg/Kg		99	62 - 130		
Ethylbenzene	0.0500	0.04828		mg/Kg		97	66 - 130		
Xylenes, Total	0.100	0.09888		mg/Kg		99	63 - 130		
m-Xylene & p-Xylene	0.0500	0.04934		mg/Kg		99	64 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		61 - 130
Dibromofluoromethane	109		68 - 140
Toluene-d8 (Surr)	96		50 - 130
4-Bromofluorobenzene	106		57 - 140

Lab Sample ID: LCSD 600-297766/4

Matrix: Solid

Analysis Batch: 297766

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	Spike	LCSD	LCSD					%Rec.	RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.0500	0.05315		mg/Kg		106	70 - 131	12	30	
Toluene	0.0500	0.05083		mg/Kg		102	67 - 130	11	30	
o-Xylene	0.0500	0.05488		mg/Kg		110	62 - 130	10	30	
Ethylbenzene	0.0500	0.05447		mg/Kg		109	66 - 130	12	30	
Xylenes, Total	0.100	0.1091		mg/Kg		109	63 - 130	10	30	

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-207351-1

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

Lab Sample ID: LCSD 600-297766/4

Matrix: Solid

Analysis Batch: 297766

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
m-Xylene & p-Xylene	0.0500	0.05421		mg/Kg	-	108	64 - 130	9	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	108		61 - 130						
Dibromofluoromethane	108		68 - 140						
Toluene-d8 (Surr)	95		50 - 130						
4-Bromofluorobenzene	105		57 - 140						

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-297771/3-A

Matrix: Solid

Analysis Batch: 297774

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 297771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg	-	06/30/20 08:00	06/30/20 11:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
a,a,a-Trifluorotoluene	96		70 - 130						
							Prepared	Analyzed	Dil Fac
							06/30/20 08:00	06/30/20 11:09	1

Lab Sample ID: LCS 600-297771/1-A

Matrix: Solid

Analysis Batch: 297774

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 297771

			Spike	LCS	LCS						
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	
Gasoline Range Organics [C6 - C10]			5.04	5.399		mg/Kg	-	107		70 - 130	
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
a,a,a-Trifluorotoluene	98		70 - 130								

Lab Sample ID: LCSD 600-297771/2-A

Matrix: Solid

Analysis Batch: 297774

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 297771

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	5.04	5.240		mg/Kg	-	104	70 - 130	3	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	98		70 - 130						

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-207351-1

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

Lab Sample ID: MB 600-297764/1-A

Matrix: Solid

Analysis Batch: 297934

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 297764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg	-	06/30/20 07:34	07/01/20 22:20	1
C28-C36	4.97	U	4.97	4.97	mg/Kg	-	06/30/20 07:34	07/01/20 22:20	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	71		60 - 140				06/30/20 07:34	07/01/20 22:20	1

Lab Sample ID: LCS 600-297764/2-A

Matrix: Solid

Analysis Batch: 297934

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 297764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	66.4	73.61		mg/Kg	-	111	66 - 134		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
o-Terphenyl	97		60 - 140						

Lab Sample ID: LCSD 600-297764/3-A

Matrix: Solid

Analysis Batch: 297934

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 297764

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	66.7	80.94		mg/Kg	-	121	66 - 134	9	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
o-Terphenyl	127		60 - 140						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-298438/1-A

Matrix: Solid

Analysis Batch: 298520

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg	-		07/10/20 09:32	1

Lab Sample ID: LCS 600-298438/2-A

Matrix: Solid

Analysis Batch: 298520

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	200	192.7		mg/Kg	-	96	90 - 110		

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QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 600-207351-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 600-207351-4 MS

Client Sample ID: Cell 17-Square 46-S-2-3-200625

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 298520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	367		250	580.5		mg/Kg	✱	85	80 - 120

Lab Sample ID: 600-207351-4 MSD

Client Sample ID: Cell 17-Square 46-S-2-3-200625

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 298520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	367		250	555.6	N1	mg/Kg	✱	76	80 - 120	4	20

Method: 2540B - Percent Moisture

Lab Sample ID: 600-207351-1 DU

Client Sample ID: Cell 20-Square 152-S-2-3200625

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 297705

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	28.4		29.1		%		2	20
Percent Solids	71.6		70.9		%		0.9	20

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-207351-1

Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Analysis Batch: 297653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-1	Cell 20-Square 152-S-2-3200625	Total/NA	Solid	8260B	297655
600-207351-2	Cell 19-Square 82-S-2-32-00625	Total/NA	Solid	8260B	297655
MB 600-297653/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-297653/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-297653/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 297655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-1	Cell 20-Square 152-S-2-3200625	Total/NA	Solid	5030B	
600-207351-2	Cell 19-Square 82-S-2-32-00625	Total/NA	Solid	5030B	

Analysis Batch: 297766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-3	Cell 18-Square 31-S-2-3-200625	Total/NA	Solid	8260B	297809
600-207351-4	Cell 17-Square 46-S-2-3-200625	Total/NA	Solid	8260B	297809
600-207351-5	Cell 21-Square 73-S-2-3-200625	Total/NA	Solid	8260B	297809
600-207351-6	Cell 25-Square 25-S-2-3-200625	Total/NA	Solid	8260B	297809
600-207351-7	Cell 26-Square 66-S-2-3-200625	Total/NA	Solid	8260B	297809
MB 600-297766/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-297766/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-297766/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 297809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-3	Cell 18-Square 31-S-2-3-200625	Total/NA	Solid	5030B	
600-207351-4	Cell 17-Square 46-S-2-3-200625	Total/NA	Solid	5030B	
600-207351-5	Cell 21-Square 73-S-2-3-200625	Total/NA	Solid	5030B	
600-207351-6	Cell 25-Square 25-S-2-3-200625	Total/NA	Solid	5030B	
600-207351-7	Cell 26-Square 66-S-2-3-200625	Total/NA	Solid	5030B	

GC VOA

Prep Batch: 297771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-1	Cell 20-Square 152-S-2-3200625	Total/NA	Solid	5030B	
600-207351-2	Cell 19-Square 82-S-2-32-00625	Total/NA	Solid	5030B	
600-207351-3	Cell 18-Square 31-S-2-3-200625	Total/NA	Solid	5030B	
600-207351-4	Cell 17-Square 46-S-2-3-200625	Total/NA	Solid	5030B	
600-207351-5	Cell 21-Square 73-S-2-3-200625	Total/NA	Solid	5030B	
600-207351-6	Cell 25-Square 25-S-2-3-200625	Total/NA	Solid	5030B	
600-207351-7	Cell 26-Square 66-S-2-3-200625	Total/NA	Solid	5030B	
600-207351-8	Cell 20-Treatment-S-6-200626	Total/NA	Solid	5030B	
600-207351-9	Cell 19-Treatment-S-6-200626	Total/NA	Solid	5030B	
600-207351-10	Cell 18-Treatment-S-6-200626	Total/NA	Solid	5030B	
600-207351-11	Cell 17-Treatment-S-6-200626	Total/NA	Solid	5030B	
600-207351-12	Cell 21-Treatment-S-6-200626	Total/NA	Solid	5030B	
600-207351-13	Cell 25-Treatment-S-6-200626	Total/NA	Solid	5030B	
600-207351-14	Cell 26-Treatment-S-6-200626	Total/NA	Solid	5030B	
MB 600-297771/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-297771/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-297771/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

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QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-207351-1

Project/Site: Chevron - Jal Land Farm Soils

GC VOA

Analysis Batch: 297774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-1	Cell 20-Square 152-S-2-3200625	Total/NA	Solid	8015B	297771
600-207351-2	Cell 19-Square 82-S-2-32-00625	Total/NA	Solid	8015B	297771
600-207351-3	Cell 18-Square 31-S-2-3-200625	Total/NA	Solid	8015B	297771
600-207351-4	Cell 17-Square 46-S-2-3-200625	Total/NA	Solid	8015B	297771
600-207351-5	Cell 21-Square 73-S-2-3-200625	Total/NA	Solid	8015B	297771
600-207351-6	Cell 25-Square 25-S-2-3-200625	Total/NA	Solid	8015B	297771
600-207351-7	Cell 26-Square 66-S-2-3-200625	Total/NA	Solid	8015B	297771
600-207351-8	Cell 20-Treatment-S-6-200626	Total/NA	Solid	8015B	297771
600-207351-9	Cell 19-Treatment-S-6-200626	Total/NA	Solid	8015B	297771
600-207351-10	Cell 18-Treatment-S-6-200626	Total/NA	Solid	8015B	297771
600-207351-11	Cell 17-Treatment-S-6-200626	Total/NA	Solid	8015B	297771
600-207351-12	Cell 21-Treatment-S-6-200626	Total/NA	Solid	8015B	297771
600-207351-13	Cell 25-Treatment-S-6-200626	Total/NA	Solid	8015B	297771
600-207351-14	Cell 26-Treatment-S-6-200626	Total/NA	Solid	8015B	297771
MB 600-297771/3-A	Method Blank	Total/NA	Solid	8015B	297771
LCS 600-297771/1-A	Lab Control Sample	Total/NA	Solid	8015B	297771
LCSD 600-297771/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	297771

GC Semi VOA

Prep Batch: 297764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-1	Cell 20-Square 152-S-2-3200625	Total/NA	Solid	3546	
600-207351-2	Cell 19-Square 82-S-2-32-00625	Total/NA	Solid	3546	
600-207351-3	Cell 18-Square 31-S-2-3-200625	Total/NA	Solid	3546	
600-207351-4	Cell 17-Square 46-S-2-3-200625	Total/NA	Solid	3546	
600-207351-5	Cell 21-Square 73-S-2-3-200625	Total/NA	Solid	3546	
600-207351-6	Cell 25-Square 25-S-2-3-200625	Total/NA	Solid	3546	
600-207351-7	Cell 26-Square 66-S-2-3-200625	Total/NA	Solid	3546	
600-207351-8	Cell 20-Treatment-S-6-200626	Total/NA	Solid	3546	
600-207351-9	Cell 19-Treatment-S-6-200626	Total/NA	Solid	3546	
600-207351-10	Cell 18-Treatment-S-6-200626	Total/NA	Solid	3546	
600-207351-11	Cell 17-Treatment-S-6-200626	Total/NA	Solid	3546	
600-207351-12 - DL	Cell 21-Treatment-S-6-200626	Total/NA	Solid	3546	
600-207351-13	Cell 25-Treatment-S-6-200626	Total/NA	Solid	3546	
600-207351-14	Cell 26-Treatment-S-6-200626	Total/NA	Solid	3546	
MB 600-297764/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-297764/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-297764/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 297934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-1	Cell 20-Square 152-S-2-3200625	Total/NA	Solid	8015B	297764
600-207351-2	Cell 19-Square 82-S-2-32-00625	Total/NA	Solid	8015B	297764
600-207351-3	Cell 18-Square 31-S-2-3-200625	Total/NA	Solid	8015B	297764
600-207351-4	Cell 17-Square 46-S-2-3-200625	Total/NA	Solid	8015B	297764
600-207351-5	Cell 21-Square 73-S-2-3-200625	Total/NA	Solid	8015B	297764
600-207351-6	Cell 25-Square 25-S-2-3-200625	Total/NA	Solid	8015B	297764
600-207351-7	Cell 26-Square 66-S-2-3-200625	Total/NA	Solid	8015B	297764
600-207351-8	Cell 20-Treatment-S-6-200626	Total/NA	Solid	8015B	297764
600-207351-9	Cell 19-Treatment-S-6-200626	Total/NA	Solid	8015B	297764

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QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-207351-1

Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Analysis Batch: 297934 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-10	Cell 18-Treatment-S-6-200626	Total/NA	Solid	8015B	297764
600-207351-11	Cell 17-Treatment-S-6-200626	Total/NA	Solid	8015B	297764
600-207351-13	Cell 25-Treatment-S-6-200626	Total/NA	Solid	8015B	297764
600-207351-14	Cell 26-Treatment-S-6-200626	Total/NA	Solid	8015B	297764
MB 600-297764/1-A	Method Blank	Total/NA	Solid	8015B	297764
LCS 600-297764/2-A	Lab Control Sample	Total/NA	Solid	8015B	297764
LCSD 600-297764/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	297764

Analysis Batch: 298138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-12 - DL	Cell 21-Treatment-S-6-200626	Total/NA	Solid	8015B	297764

HPLC/IC

Leach Batch: 298438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-1	Cell 20-Square 152-S-2-3200625	Soluble	Solid	DI Leach	
600-207351-2	Cell 19-Square 82-S-2-32-00625	Soluble	Solid	DI Leach	
600-207351-3	Cell 18-Square 31-S-2-3-200625	Soluble	Solid	DI Leach	
600-207351-4	Cell 17-Square 46-S-2-3-200625	Soluble	Solid	DI Leach	
600-207351-5	Cell 21-Square 73-S-2-3-200625	Soluble	Solid	DI Leach	
600-207351-6	Cell 25-Square 25-S-2-3-200625	Soluble	Solid	DI Leach	
600-207351-7	Cell 26-Square 66-S-2-3-200625	Soluble	Solid	DI Leach	
600-207351-8	Cell 20-Treatment-S-6-200626	Soluble	Solid	DI Leach	
600-207351-9	Cell 19-Treatment-S-6-200626	Soluble	Solid	DI Leach	
600-207351-10	Cell 18-Treatment-S-6-200626	Soluble	Solid	DI Leach	
600-207351-11	Cell 17-Treatment-S-6-200626	Soluble	Solid	DI Leach	
600-207351-12	Cell 21-Treatment-S-6-200626	Soluble	Solid	DI Leach	
600-207351-13	Cell 25-Treatment-S-6-200626	Soluble	Solid	DI Leach	
600-207351-14	Cell 26-Treatment-S-6-200626	Soluble	Solid	DI Leach	
MB 600-298438/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-298438/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-207351-4 MS	Cell 17-Square 46-S-2-3-200625	Soluble	Solid	DI Leach	
600-207351-4 MSD	Cell 17-Square 46-S-2-3-200625	Soluble	Solid	DI Leach	

Analysis Batch: 298520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-1	Cell 20-Square 152-S-2-3200625	Soluble	Solid	300.0	298438
600-207351-2	Cell 19-Square 82-S-2-32-00625	Soluble	Solid	300.0	298438
600-207351-3	Cell 18-Square 31-S-2-3-200625	Soluble	Solid	300.0	298438
600-207351-4	Cell 17-Square 46-S-2-3-200625	Soluble	Solid	300.0	298438
600-207351-5	Cell 21-Square 73-S-2-3-200625	Soluble	Solid	300.0	298438
600-207351-6	Cell 25-Square 25-S-2-3-200625	Soluble	Solid	300.0	298438
600-207351-7	Cell 26-Square 66-S-2-3-200625	Soluble	Solid	300.0	298438
600-207351-8	Cell 20-Treatment-S-6-200626	Soluble	Solid	300.0	298438
600-207351-9	Cell 19-Treatment-S-6-200626	Soluble	Solid	300.0	298438
600-207351-10	Cell 18-Treatment-S-6-200626	Soluble	Solid	300.0	298438
600-207351-11	Cell 17-Treatment-S-6-200626	Soluble	Solid	300.0	298438
600-207351-12	Cell 21-Treatment-S-6-200626	Soluble	Solid	300.0	298438
600-207351-13	Cell 25-Treatment-S-6-200626	Soluble	Solid	300.0	298438
600-207351-14	Cell 26-Treatment-S-6-200626	Soluble	Solid	300.0	298438

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-207351-1

HPLC/IC (Continued)

Analysis Batch: 298520 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-298438/1-A	Method Blank	Soluble	Solid	300.0	298438
LCS 600-298438/2-A	Lab Control Sample	Soluble	Solid	300.0	298438
600-207351-4 MS	Cell 17-Square 46-S-2-3-200625	Soluble	Solid	300.0	298438
600-207351-4 MSD	Cell 17-Square 46-S-2-3-200625	Soluble	Solid	300.0	298438

General Chemistry

Analysis Batch: 297705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-1	Cell 20-Square 152-S-2-3200625	Total/NA	Solid	2540B	
600-207351-2	Cell 19-Square 82-S-2-32-00625	Total/NA	Solid	2540B	
600-207351-3	Cell 18-Square 31-S-2-3-200625	Total/NA	Solid	2540B	
600-207351-4	Cell 17-Square 46-S-2-3-200625	Total/NA	Solid	2540B	
600-207351-5	Cell 21-Square 73-S-2-3-200625	Total/NA	Solid	2540B	
600-207351-6	Cell 25-Square 25-S-2-3-200625	Total/NA	Solid	2540B	
600-207351-7	Cell 26-Square 66-S-2-3-200625	Total/NA	Solid	2540B	
600-207351-8	Cell 20-Treatment-S-6-200626	Total/NA	Solid	2540B	
600-207351-9	Cell 19-Treatment-S-6-200626	Total/NA	Solid	2540B	
600-207351-10	Cell 18-Treatment-S-6-200626	Total/NA	Solid	2540B	
600-207351-11	Cell 17-Treatment-S-6-200626	Total/NA	Solid	2540B	
600-207351-12	Cell 21-Treatment-S-6-200626	Total/NA	Solid	2540B	
600-207351-13	Cell 25-Treatment-S-6-200626	Total/NA	Solid	2540B	
600-207351-14	Cell 26-Treatment-S-6-200626	Total/NA	Solid	2540B	
600-207351-1 DU	Cell 20-Square 152-S-2-3200625	Total/NA	Solid	2540B	

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Lab Chronicle

Client: ARCADIS U.S., Inc.

Job ID: 600-207351-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 20-Square 152-S-2-3200625

Lab Sample ID: 600-207351-1

Date Collected: 06/25/20 10:15

Matrix: Solid

Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 20-Square 152-S-2-3200625

Lab Sample ID: 600-207351-1

Date Collected: 06/25/20 10:15

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 71.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.22 g	5 mL	297655	06/27/20 14:45	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	297653	06/27/20 18:36	PXS	TAL HOU
Total/NA	Prep	5030B			10.78 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 11:34	WS1	TAL HOU
Total/NA	Prep	3546			15.08 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 00:00	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 14:55	W1N	TAL HOU

Client Sample ID: Cell 19-Square 82-S-2-32-00625

Lab Sample ID: 600-207351-2

Date Collected: 06/25/20 10:50

Matrix: Solid

Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 19-Square 82-S-2-32-00625

Lab Sample ID: 600-207351-2

Date Collected: 06/25/20 10:50

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 70.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.68 g	5 mL	297655	06/27/20 14:45	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	297653	06/27/20 19:00	PXS	TAL HOU
Total/NA	Prep	5030B			10.14 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 11:59	WS1	TAL HOU
Total/NA	Prep	3546			15.02 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 00:33	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 19:26	W1N	TAL HOU

Client Sample ID: Cell 18-Square 31-S-2-3-200625

Lab Sample ID: 600-207351-3

Date Collected: 06/25/20 11:40

Matrix: Solid

Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.

Job ID: 600-207351-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-Square 31-S-2-3-200625

Lab Sample ID: 600-207351-3

Date Collected: 06/25/20 11:40

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.87 g	5 mL	297809	06/30/20 10:59	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	297766	06/30/20 12:11	WS1	TAL HOU
Total/NA	Prep	5030B			10.25 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 12:24	WS1	TAL HOU
Total/NA	Prep	3546			15.09 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 01:06	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 17:03	W1N	TAL HOU

Client Sample ID: Cell 17-Square 46-S-2-3-200625

Lab Sample ID: 600-207351-4

Date Collected: 06/25/20 12:00

Matrix: Solid

Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 17-Square 46-S-2-3-200625

Lab Sample ID: 600-207351-4

Date Collected: 06/25/20 12:00

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.34 g	5 mL	297809	06/30/20 10:59	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	297766	06/30/20 12:34	WS1	TAL HOU
Total/NA	Prep	5030B			9.87 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 12:50	WS1	TAL HOU
Total/NA	Prep	3546			15.02 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 01:40	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		2			298520	07/10/20 15:15	W1N	TAL HOU

Client Sample ID: Cell 21-Square 73-S-2-3-200625

Lab Sample ID: 600-207351-5

Date Collected: 06/25/20 12:25

Matrix: Solid

Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 21-Square 73-S-2-3-200625

Lab Sample ID: 600-207351-5

Date Collected: 06/25/20 12:25

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 70.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.65 g	5 mL	297809	06/30/20 10:59	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	297766	06/30/20 12:58	WS1	TAL HOU
Total/NA	Prep	5030B			9.69 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 13:15	WS1	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.

Job ID: 600-207351-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 21-Square 73-S-2-3-200625

Lab Sample ID: 600-207351-5

Date Collected: 06/25/20 12:25

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 70.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.08 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 02:13	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 18:04	W1N	TAL HOU

Client Sample ID: Cell 25-Square 25-S-2-3-200625

Lab Sample ID: 600-207351-6

Date Collected: 06/25/20 12:50

Matrix: Solid

Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 25-Square 25-S-2-3-200625

Lab Sample ID: 600-207351-6

Date Collected: 06/25/20 12:50

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	297809	06/30/20 10:59	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	297766	06/30/20 13:21	WS1	TAL HOU
Total/NA	Prep	5030B			10.11 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 13:40	WS1	TAL HOU
Total/NA	Prep	3546			15.08 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 02:47	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 19:06	W1N	TAL HOU

Client Sample ID: Cell 26-Square 66-S-2-3-200625

Lab Sample ID: 600-207351-7

Date Collected: 06/25/20 13:15

Matrix: Solid

Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 26-Square 66-S-2-3-200625

Lab Sample ID: 600-207351-7

Date Collected: 06/25/20 13:15

Matrix: Solid

Date Received: 06/27/20 11:15

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	5030B			4.66 g	5 mL	297809	06/30/20 10:59	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	297766	06/30/20 13:45	WS1	TAL HOU
Total/NA	Prep	5030B			10.26 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 14:05	WS1	TAL HOU
Total/NA	Prep	3546			15.04 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 03:20	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 18:25	W1N	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-207351-1

Client Sample ID: Cell 20-Treatment-S-6-200626

Lab Sample ID: 600-207351-8

Date Collected: 06/26/20 08:45

Matrix: Solid

Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 20-Treatment-S-6-200626

Lab Sample ID: 600-207351-8

Date Collected: 06/26/20 08:45

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			10.25 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 14:31	WS1	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 05:01	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 13:54	W1N	TAL HOU

Client Sample ID: Cell 19-Treatment-S-6-200626

Lab Sample ID: 600-207351-9

Date Collected: 06/26/20 09:05

Matrix: Solid

Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 19-Treatment-S-6-200626

Lab Sample ID: 600-207351-9

Date Collected: 06/26/20 09:05

Matrix: Solid

Date Received: 06/27/20 11:15

Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			9.67 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 14:57	WS1	TAL HOU
Total/NA	Prep	3546			15.04 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 05:34	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 16:22	W1N	TAL HOU

Client Sample ID: Cell 18-Treatment-S-6-200626

Lab Sample ID: 600-207351-10

Date Collected: 06/26/20 09:40

Matrix: Solid

Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S., Inc.

Job ID: 600-207351-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-Treatment-S-6-200626

Lab Sample ID: 600-207351-10

Date Collected: 06/26/20 09:40

Matrix: Solid

Date Received: 06/27/20 11:15

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	5030B			9.41 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 15:24	WS1	TAL HOU
Total/NA	Prep	3546			15.07 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 06:08	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 14:35	W1N	TAL HOU

Client Sample ID: Cell 17-Treatment-S-6-200626

Lab Sample ID: 600-207351-11

Date Collected: 06/26/20 09:55

Matrix: Solid

Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 17-Treatment-S-6-200626

Lab Sample ID: 600-207351-11

Date Collected: 06/26/20 09:55

Matrix: Solid

Date Received: 06/27/20 11:15

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	5030B			9.68 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 16:18	WS1	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 06:41	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 16:43	W1N	TAL HOU

Client Sample ID: Cell 21-Treatment-S-6-200626

Lab Sample ID: 600-207351-12

Date Collected: 06/26/20 10:30

Matrix: Solid

Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 21-Treatment-S-6-200626

Lab Sample ID: 600-207351-12

Date Collected: 06/26/20 10:30

Matrix: Solid

Date Received: 06/27/20 11:15

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	5030B			9.65 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 16:56	WS1	TAL HOU
Total/NA	Prep	3546	DL		15.08 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B	DL	2			298138	07/03/20 00:40	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 12:43	W1N	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-207351-1

Client Sample ID: Cell 25-Treatment-S-6-200626

Lab Sample ID: 600-207351-13

Date Collected: 06/26/20 10:50

Matrix: Solid

Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 25-Treatment-S-6-200626

Lab Sample ID: 600-207351-13

Date Collected: 06/26/20 10:50

Matrix: Solid

Date Received: 06/27/20 11:15

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	5030B			10.03 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 17:29	WS1	TAL HOU
Total/NA	Prep	3546			15.08 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 07:46	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 18:45	W1N	TAL HOU

Client Sample ID: Cell 26-Treatment-S-6-200626

Lab Sample ID: 600-207351-14

Date Collected: 06/26/20 11:15

Matrix: Solid

Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 26-Treatment-S-6-200626

Lab Sample ID: 600-207351-14

Date Collected: 06/26/20 11:15

Matrix: Solid

Date Received: 06/27/20 11:15

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	5030B			10.25 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 18:02	WS1	TAL HOU
Total/NA	Prep	3546			15.09 g	1.0 mL	297764	06/30/20 09:18	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 08:18	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 14:14	W1N	TAL HOU

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

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

Job ID: 600-207351-1

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-19-25	10-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	C28-C36

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Midland #264

Chain of Custody Record

Eurofins

Client Information		Lab PM: Kuchadkar, Sachin G		COG No: 600-77345-20763.1	
Client Contact: Allison Schaffer		Phone: 806-831-9801		Page: 10 of 2	
Company: ARCADIS U.S., Inc.		E-Mail: sachin.kuchadkar@testamerica.com		Job #:	
Address: 630 Plaza Drive Suite 100		City: Highlands Ranch		State: CO	
Zip: 80129-2377		Phone: 303-316-8508 (Tel)		Purchase Order Requested	
Email: Allison.Schaffer@arcadis.com		Project #		SSOW#	
Project Name: Chevron - Jal Land Farm Soils		Site			
Due Date Requested:		TAT Requested (days):		Analysis Requested	
Standard		PO #		Field Filtered Sample (Yes or No)	
WD #		Sample Date		Sample Time	
Sample Identification		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, G=material, DT=issue, AA=)	
Cell 20 - Syner 152-S-2-3-200625		G		Solid	
Cell A - Syner 82-S-2-3-200625		G		Solid	
Cell 18 - Syner 31-S-2-3-200625		G		Solid	
Cell 17 - Syner 46-S-2-3-200625		G		Solid	
Cell 21 - Syner 73-S-2-3-200625		G		Solid	
Cell 25 - Syner 25-S-2-3-200625		G		Solid	
Cell 26 - Syner 66-S-2-3-200625		G		Solid	
Cell 20 - treatment - S-6-200626		G		Solid	
Cell 19 - treatment - S-6-200626		G		Solid	
Cell 18 - treatment - S-6-200626		G		Solid	
Cell 17 - treatment - S-6-200626		G		Solid	
Possible Hazard Identification		Poison B		Radiological	
Non-Hazard		Flammable		Skin Irritant	
Deliverable Requested I, II, III, IV, Other (specify)		Unknown		Other (specify)	
Empty Kit Relinquished by:		Date		Time	
Relinquished by: Chus Hubler		Date/Time: 6-26-20/1230		Company: Arcadis	
Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks	
Yes		No			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Archive For	
Special Instructions/QC Requirements:		Disposal By Lab		Months	
600-207351 Chain of Custody		Barcode		Total Number of Containers	
Preservation Codes:		A - HCL		M - Hexane	
B - NaOH		N - None		O - AsNaO2	
C - Zn Acetate		P - Na2O4S		Q - Na2SO3	
D - Nitric Acid		R - Na2SO3		S - H2SO4	
E - NaHSO4		T - TSP Dodecahydrate		U - Acetone	
F - MeOH		V - MCA4A		W - pH 4.5	
G - Ascorbic Acid		X - EDTA		Z - other (specify)	
H - Ice		Other:			
J - DI Water					
K - EDTA					
L - EDTA					
Special Instructions/Note:					

Client Information Client Contact: Allison Schaffer Company: ARCADIS U.S., Inc. Address: 630 Plaza Drive Suite 100 City: Highlands Ranch State Zip: CO 80129-2377 Phone: 303-316-6506 (Tel) Email: Allison.Schaffer@arcadis.com Project Name: Chevron - Jal Land Farm Soils Site:		Sample: Chas Holbe Lab PM: Kuchadkar, Sachin G Phone: 806-831-9801 E-Mail: sachin.kuchadkar@lestamcainc.com		Carrier Tracking No(s): COC No: 600-77345-20783.1 Page: 2 of 2 Job #:	
Analysis Requested					
Due Date Requested: TAT Requested (days): Standard		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: 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)			
PO # Purchase Order Requested WO # Project # 60012253 SSOW#		Total Number of Containers:			
Sample Identification Cell 21 - treatment - S-G-200626 Cell 25 - treatment - S-G-200626 Cell 26 - treatment - S-G-200626		Special Instructions/Note:			
Sample Date 6-26 Sample Time 1030 Sample Type (C=comp, G=grab) G Matrix (W=water, S=solid, O=other) Solid		Field Filtered Sample (Yes or No) ☒ Yes ☐ No 80158_DRO /ORO ☒ Yes ☐ No 80158_GRO ☒ Yes ☐ No 82608-BTEX ☒ Yes ☐ No 300 - Chloride ☒ Yes ☐ No			
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/OC Requirements:			
Empty Kit Relinquished by: Chas Holbe Relinquished by:		Date: 6-26-2012 1230 Company: Arcadis			
Relinquished by:		Date/Time:			
Relinquished by:		Date/Time:			
Relinquished by:		Date/Time:			
Custody Seals Intact Yes ☒ No ☐		Cooler Temperature(s) °C and Other Remarks:			

Eurofins TestAmerica Houston

LOC. 600

207351

eurofins

Environment Testing
TestAmerica

Sample Receipt Checklist

20 JUN 27 12:15

JOB NUMBER: _____

Date/Time Received: _____

CLIENT: ArcadisUNPACKED BY: JPCARRIER/DRIVER: FedexCustody Seal Present: ☒ YES ☐ NONumber of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
0142	Y / N	Y / N	2.3	678	-0.1	2.2
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				6/27/20
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒ YES ☐ NOLABORATORY PRESERVATION OF SAMPLES REQUIRED: ☒ NO ☐ YESBase samples are >pH 12: ☐ YES ☐ NOAcid preserved are <pH 2: ☐ YES ☐ NOTX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot # _____

VOA headspace acceptable (5-6mm): ☐ YES ☐ NO ☒ NADid samples meet the laboratory's standard conditions of sample acceptability upon receipt? ☒ YES ☐ NO

COMMENTS:

6/27/20

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-207351-1

Login Number: 207351

List Source: Eurofins TestAmerica, Houston

List Number: 1

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	2.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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.

APPENDIX B

August 2020 Laboratory Reports



Environment Testing
America

ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-209489-1

Client Project/Site: Chevron - Jal Land Farm Soils

For:

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

Attn: Alison Schaffer

Authorized for release by:
9/21/2020 4:30:15 PM

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

LINKS

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results through
TotalAccess

Have a Question?



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-209489-1

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Case Narrative

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

Job ID: 600-209489-1

Job ID: 600-209489-1**Laboratory: Eurofins TestAmerica, Houston****Narrative**
Job Narrative
600-209489-1
Comments

No additional comments.

Receipt

The samples were received on 8/8/2020 10:05 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5° C.

GC/MS VOA

Method 8260B: The method blank for analytical batch 600-301050 contained Chloroform 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.

GC/MS Semi VOA

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301300 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301300/3).

Method 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 600-300979 and analytical batch 600-301300 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301390 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 600-301390/2).

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301390 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301390/3).

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

GC VOA

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

GC Semi VOA

Method 8082: Surrogate recovery for the following sample was outside control limits: CELL20-SQUARE15-S-2-3-200807 (600-209489-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081A: The continuing calibration verification (CCV) associated with batch 600-302135 recovered above the upper control limit for 4,4-DDT,Aldrin,beta-BHC,delta-BHC,and DCB. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 600-302135/5).

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

RAD

Methods 901.1, GA-01-R: Gamma Prep Batch 160-479639

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

Case Narrative

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

Job ID: 600-209489-1

Job ID: 600-209489-1 (Continued)**Laboratory: Eurofins TestAmerica, Houston (Continued)**

Th-234	U-238
Pb-210	Po-210
Pb-210	Bi-210
Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

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.

CELL20-SQUARE79-S-2-3-200807 (600-209489-1), CELL20-SQUARE204-S-2-3-200807 (600-209489-2), CELL20-SQUARE15-S-2-3-200807 (600-209489-3), (600-209486-E-1-B) and (600-209486-E-1-C DU)

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

Metals

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-481632 and analytical batch 160-481844 were outside control limits for Antimony. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (600-209488-G-1-B MS ^20) and (600-209488-G-1-C MSD ^20)

Method 6020: Due to the high concentration of Barium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-481632 and analytical batch 160-481844 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (600-209488-G-1-B MS ^20) and (600-209488-G-1-C MSD ^20)

Method 6020: preparation batch 160-481632 and analytical batch 160-481844

The post digestion spike % recovery for Barium was outside of control limits due to high concentrations of target analytes in the native sample (600-209488-G-1-A PDS ^20)

Method 6020: preparation batch 160-481632 and analytical batch 160-481844

The following samples were diluted due to the abundance of non-target analytes: CELL20-SQUARE79-S-2-3-200807 (600-209489-1), CELL20-SQUARE204-S-2-3-200807 (600-209489-2) and CELL20-SQUARE15-S-2-3-200807 (600-209489-3). Elevated reporting limits (RLs) are provided.

Method 6020: analytical batch 160-481844

The internal standard Li-6 was outside QC limits in the CCV. All analytes were within acceptable limits, showing that there was no bias. Original results will be reported. (CCV 160-481844/40)

Case Narrative

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

Job ID: 600-209489-1

Job ID: 600-209489-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

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

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

Industrial Hygiene

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

Organic Prep

Methods Increment, prep: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client/PM request, the subsampling procedure was not performed on these samples.

CELL20-SQUARE79-S-2-3-200807 (600-209489-1), CELL20-SQUARE204-S-2-3-200807 (600-209489-2) and CELL20-SQUARE15-S-2-3-200807 (600-209489-3)

In preparation batch 280-505294 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: CELL20-SQUARE79-S-2-3-200807 (600-209489-1), CELL20-SQUARE204-S-2-3-200807 (600-209489-2) and CELL20-SQUARE15-S-2-3-200807 (600-209489-3). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet.

In preparation batch 280-505294 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B

Method PFC leach: The following samples were full of rocks and gravel. Aliquoting 10g of soil material was difficult.

CELL20-SQUARE79-S-2-3-200807 (600-209489-1), CELL20-SQUARE204-S-2-3-200807 (600-209489-2) and CELL20-SQUARE15-S-2-3-200807 (600-209489-3)

preparation batch 280-505864

PFC_Leach / PFC

Method PFC leach: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: The following sample was 99% gravel. Unable to get 10g of soil for the extraction. Forced to use the gravel to bring sample weight up to 10g for extraction. CELL20-SQUARE204-S-2-3-200807 (600-209489-2)

preparation batch 280-505864

PFC_Leach / PFC

Method PFC leach: The following samples required 2mL of 2.4M HCl to bring the pH below 7. CELL20-SQUARE79-S-2-3-200807 (600-209489-1), CELL20-SQUARE204-S-2-3-200807 (600-209489-2) and CELL20-SQUARE15-S-2-3-200807 (600-209489-3)

preparation batch 280-505864

PFC_Leach / PFC

Method 3546: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: CELL20-SQUARE79-S-2-3-200807 (600-209489-1), CELL20-SQUARE204-S-2-3-200807 (600-209489-2) and CELL20-SQUARE15-S-2-3-200807 (600-209489-3). The reporting limits (RLs) have been adjusted proportionately.

Case Narrative

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

Job ID: 600-209489-1

Job ID: 600-209489-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

Method 3546: The following sample required a sulfuric acid clean-up, via EPA Method 3665A, to reduce matrix interferences: CELL20-SQUARE15-S-2-3-200807 (600-209489-3).

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

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Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209489-1

Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
8270D	Pesticides by GC/MS	SW846	TAL PEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
8081A	Organochlorine Pesticides (GC)	SW846	TAL HOU
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL HOU
2540 C-1997	Total Dissolved Solids (Dried at 180 °C)	SM	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
9012B	Cyanide, Total and/or Amenable	SW846	TAL HOU
9045D	pH	SW846	TAL HOU
9066	Phenolics (Colorimetric, 4-AAP with Distillation)	SW846	TAL HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
3050B	Preparation, Metals	SW846	TAL SL
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
3546	Microwave Extraction	SW846	TAL PEN
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471B	Mercury in Solid or Semi-Solid Waste (Manual Cold Vapor Technique)/Preparation	SW846	TAL HOU
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU
Distill/Phenol	Distillation, Phenolics	None	TAL HOU
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"

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

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.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Houston

Sample Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209489-1

Project/Site: Chevron - Jal Land Farm Soils

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Solid	08/07/20 11:35	08/08/20 10:05	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Solid	08/07/20 12:13	08/08/20 10:05	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Solid	08/07/20 12:59	08/08/20 10:05	

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE79-S-2-3-200807

Lab Sample ID: 600-209489-1

Date Collected: 08/07/20 11:35

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.79	U	10.8	1.79	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Vinyl chloride	0.971	U	10.8	0.971	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Bromomethane	0.895	U	10.8	0.895	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Trichlorofluoromethane	0.712	U	10.8	0.712	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Acrolein	6.72	U	27.0	6.72	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
1,1-Dichloroethene	1.32	U	5.39	1.32	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
trans-1,2-Dichloroethene	1.23	U	5.39	1.23	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Methyl tert-butyl ether	1.97	U	5.39	1.97	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Methylene Chloride	3.95	J	10.8	2.36	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Acrylonitrile	6.28	U	53.9	6.28	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
cis-1,2-Dichloroethene	0.895	U	5.39	0.895	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Carbon tetrachloride	1.22	U	5.39	1.22	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Benzene	2.75	J	5.39	0.679	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
1,2-Dichloroethane	0.971	U	5.39	0.971	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Trichloroethene	1.51	U	5.39	1.51	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
1,1,1-Trichloroethane	0.798	U	5.39	0.798	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
1,1-Dichloroethane	0.938	U	5.39	0.938	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
1,2-Dichloropropane	0.766	U	5.39	0.766	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
1,4-Dioxane	66.9	U	539	66.9	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Chloroform	2.13	J b	10.8	0.712	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Bromodichloromethane	0.712	U	5.39	0.712	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
1,1-Dichloropropene	0.701	U	5.39	0.701	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
cis-1,3-Dichloropropene	0.582	U	5.39	0.582	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Toluene	1.49	U	5.39	1.49	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
trans-1,3-Dichloropropene	0.625	U	5.39	0.625	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
1,1,2-Trichloroethane	0.787	U	5.39	0.787	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Tetrachloroethene	0.766	U	5.39	0.766	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
1,3-Dichloropropene, Total	0.625	U	5.39	0.625	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
1,2-Dibromoethane	1.10	U	5.39	1.10	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Monochlorobenzene	1.04	U	5.39	1.04	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Ethylbenzene	1.10	U	5.39	1.10	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Xylenes, Total	1.22	U	5.39	1.22	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Styrene	0.766	U	5.39	0.766	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Tribromomethane	1.48	U	5.39	1.48	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
1,1,2,2-Tetrachloroethane	0.938	U	5.39	0.938	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
1,4-Dichlorobenzene	0.712	U	5.39	0.712	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
1,2-Dichlorobenzene	0.863	U	5.39	0.863	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
1,2,4-Trichlorobenzene	2.12	U	5.39	2.12	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1
Dichlorodifluoromethane	1.66	U	5.39	1.66	ug/Kg	☆	08/12/20 11:03	08/13/20 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		61 - 130	08/12/20 11:03	08/13/20 13:58	1
Dibromofluoromethane	89		68 - 140	08/12/20 11:03	08/13/20 13:58	1
Toluene-d8 (Surr)	88		50 - 130	08/12/20 11:03	08/13/20 13:58	1
4-Bromofluorobenzene	103		57 - 140	08/12/20 11:03	08/13/20 13:58	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.83	U	38.4	4.83	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
N-Nitrosodiethylamine	8.28	U	38.4	8.28	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE79-S-2-3-200807

Lab Sample ID: 600-209489-1

Date Collected: 08/07/20 11:35

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	1.90	U	38.4	1.90	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Hexachloroethane	2.67	U	38.4	2.67	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
N-Nitrosopyrrolidine	5.39	U	38.4	5.39	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Nitrobenzene	3.42	U	38.4	3.42	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Isophorone	1.15	U	38.4	1.15	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
2,4-Dichlorophenol	4.46	U	38.4	4.46	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Naphthalene	1.56	U	38.4	1.56	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Hexachlorobutadiene	2.22	U	38.4	2.22	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
N-Nitrosodi-n-butylamine	19.2	U	38.4	19.2	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
2-Methylnaphthalene	3.16	U	38.4	3.16	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
1-Methylnaphthalene	1.81	U	38.4	1.81	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
1,2,4,5-Tetrachlorobenzene	7.79	U	38.4	7.79	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Hexachlorocyclopentadiene	5.32	U	38.4	5.32	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
2,4,6-Trichlorophenol	3.09	U	38.4	3.09	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
2,4,5-Trichlorophenol	11.5	U	38.4	11.5	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Dimethyl phthalate	5.64	U	77.0	5.64	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Acenaphthylene	1.15	U	38.4	1.15	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
2,6-Dinitrotoluene	3.40	U	38.4	3.40	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Acenaphthene	1.66	U	38.4	1.66	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Dinitrophenols	5.45	U	115	5.45	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Pentachlorobenzene	4.63	U	38.4	4.63	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
2,4-Dinitrotoluene	4.16	U	38.4	4.16	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Diethyl phthalate	9.73	U	77.0	9.73	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Fluorene	2.72	U	38.4	2.72	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Dinitro-o-cresol	5.75	U	196	5.75	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
N-Nitrosodiphenylamine	2.18	U	38.4	2.18	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Diphenylhydrazine, 1,2-	1.87	U	38.4	1.87	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Hexachlorobenzene	1.75	U	38.4	1.75	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Atrazine	5.79	U	38.4	5.79	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Pentachlorophenol	4.61	U	193	4.61	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Phenanthrene	5.71	U	38.4	5.71	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Anthracene	1.48	U	38.4	1.48	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Dibutylphthalate	8.51	J	77.0	2.99	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Fluoranthene	3.59	U	38.4	3.59	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Benzidine	10.4	U	381	10.4	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Pyrene	2.11	U	38.4	2.11	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Dichlorobenzidine, 3,3'-	11.7	U	38.4	11.7	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Benzo[a]anthracene	1.59	U	38.4	1.59	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Di (2-ethylhexyl)phthalate	22.0	J	38.4	6.20	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Chrysene	1.18	U	38.4	1.18	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Benzo[b]fluoranthene	1.98	U	38.4	1.98	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Benzo[k]fluoranthene	1.72	U	38.4	1.72	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Benzo[a]pyrene	1.86	U	38.4	1.86	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Indeno[1,2,3-cd]pyrene	4.04	U	38.4	4.04	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Dibenz(a,h)anthracene	4.19	U	38.4	4.19	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Benzo[g,h,i]perylene	5.85	U	38.4	5.85	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
bis (2-chloroisopropyl) ether	10.2	U	38.4	10.2	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1
Thiophene, tetrahydro-, 1,1-dioxide	19.2	U	38.4	19.2	ug/Kg	☆	08/12/20 11:16	08/17/20 19:14	1

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Lab Sample ID: 600-209489-1

Date Collected: 08/07/20 11:35

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	46		10 - 148	08/12/20 11:16	08/17/20 19:14	1
2-Fluorobiphenyl	79		38 - 130	08/12/20 11:16	08/17/20 19:14	1
2-Fluorophenol	69		25 - 132	08/12/20 11:16	08/17/20 19:14	1
Nitrobenzene-d5	76		10 - 155	08/12/20 11:16	08/17/20 19:14	1
Terphenyl-d14	103		53 - 134	08/12/20 11:16	08/17/20 19:14	1
Phenol-d5 (Surr)	73		27 - 130	08/12/20 11:16	08/17/20 19:14	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.5	U	74.0	13.5	ug/Kg	☼	08/18/20 13:26	08/20/20 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	80		30 - 164				08/18/20 13:26	08/20/20 19:44	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.635	U	1.08	0.635	mg/Kg	☼	08/08/20 15:03	08/13/20 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	101		70 - 130				08/08/20 15:03	08/13/20 13:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.96	U	8.65	2.96	mg/Kg	☼	08/10/20 15:56	08/13/20 20:52	1
C28-C36	8.65	U	8.65	8.65	mg/Kg	☼	08/10/20 15:56	08/13/20 20:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	74		60 - 140				08/10/20 15:56	08/13/20 20:52	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.51	U	1.95	1.51	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Hexachlorocyclohexane, beta-	1.17	U	1.95	1.17	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Hexachlorocyclohexane, delta-	0.977	U	1.95	0.977	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Hexachlorocyclohexane, alpha-	1.15	U	1.95	1.15	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Hexachlorocyclohexane, gamma-	1.07	U	1.95	1.07	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Chlordane (technical)	26.9	U	86.2	26.9	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
DDT	2.13	U	3.79	2.13	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Dieldrin	1.60	U	3.79	1.60	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Endosulfan I	1.15	U	1.95	1.15	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Endosulfan II	1.74	U	3.79	1.74	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Endosulfan sulfate	1.93	U	3.79	1.93	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Endrin	1.76	U	3.79	1.76	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Endrin aldehyde	1.79	U	3.79	1.79	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Heptachlor	1.07	U	1.95	1.07	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Heptachlor epoxide	1.34	U	1.95	1.34	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Toxaphene	84.0	U	195	84.0	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	95		47 - 150				08/11/20 08:51	08/13/20 12:58	1
Tetrachloro-m-xylene	80		50 - 143				08/11/20 08:51	08/13/20 12:58	1

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Lab Sample ID: 600-209489-1

Date Collected: 08/07/20 11:35

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00184	U	0.0192	0.00184	mg/Kg	☆	08/11/20 08:51	08/13/20 13:21	1
PCB-1221	0.00992	U	0.0192	0.00992	mg/Kg	☆	08/11/20 08:51	08/13/20 13:21	1
PCB-1232	0.00770	U	0.0192	0.00770	mg/Kg	☆	08/11/20 08:51	08/13/20 13:21	1
PCB-1242	0.00142	U	0.0192	0.00142	mg/Kg	☆	08/11/20 08:51	08/13/20 13:21	1
PCB-1248	0.00286	U	0.0192	0.00286	mg/Kg	☆	08/11/20 08:51	08/13/20 13:21	1
PCB-1254	0.00254	U	0.0192	0.00254	mg/Kg	☆	08/11/20 08:51	08/13/20 13:21	1
PCB-1260	0.0155	U	0.0192	0.0155	mg/Kg	☆	08/11/20 08:51	08/13/20 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	87		10 - 150	08/11/20 08:51	08/13/20 13:21	1
DCB Decachlorobiphenyl	109		10 - 150	08/11/20 08:51	08/13/20 13:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.17	J	4.62	0.617	mg/Kg	☆		08/11/20 23:32	1
Nitrate as N	7.01		2.31	0.290	mg/Kg	☆		08/11/20 23:32	1
Fluoride	5.13		2.31	0.695	mg/Kg	☆		08/11/20 23:32	1
Nitrite as N	0.343	U	2.31	0.343	mg/Kg	☆		08/11/20 23:32	1
Sulfate	62.3		5.78	1.11	mg/Kg	☆		08/11/20 23:32	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	0.0923	0.0210	mg/Kg		08/12/20 15:04	08/13/20 23:12	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0397	U	0.185	0.0397	mg/Kg		08/12/20 15:04	08/13/20 23:12	1
2,4,6-Trinitrotoluene	0.0283	U	0.0923	0.0283	mg/Kg		08/12/20 15:04	08/13/20 23:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	104		83 - 122	08/12/20 15:04	08/13/20 23:12	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0922	U	0.560	0.0922	ug/Kg	☆	08/12/20 11:00	08/20/20 15:59	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.257	U	0.894	0.257	ug/Kg	☆	08/17/20 14:49	08/24/20 14:15	1
Perfluorohexanesulfonic acid (PFHxS)	0.313	U	0.894	0.313	ug/Kg	☆	08/17/20 14:49	08/24/20 14:15	1
Perfluorooctanesulfonic acid (PFOS)	0.157	U	0.894	0.157	ug/Kg	☆	08/17/20 14:49	08/24/20 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	102		57 - 153	08/17/20 14:49	08/24/20 14:15	1
13C8 PFOS	95		70 - 130	08/17/20 14:49	08/24/20 14:15	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.781	U	2.08	0.781	mg/Kg	☆	09/04/20 10:33	09/09/20 19:48	20
Arsenic	4.17	U	10.4	4.17	mg/Kg	☆	09/04/20 10:33	09/09/20 19:48	20
Barium	245		20.8	5.21	mg/Kg	☆	09/04/20 10:33	09/09/20 19:48	20
Beryllium	0.417	U	1.04	0.417	mg/Kg	☆	09/04/20 10:33	09/09/20 19:48	20
Cadmium	0.250	U	0.521	0.250	mg/Kg	☆	09/04/20 10:33	09/09/20 19:48	20
Chromium	4.69	U	10.4	4.69	mg/Kg	☆	09/04/20 10:33	09/09/20 19:48	20

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Lab Sample ID: 600-209489-1

Date Collected: 08/07/20 11:35

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.5

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2050		125	62.5	mg/Kg	☆	09/04/20 10:33	09/09/20 19:48	20
Copper	4.17	U	10.4	4.17	mg/Kg	☆	09/04/20 10:33	09/09/20 19:48	20
Manganese	20.4		5.21	2.08	mg/Kg	☆	09/04/20 10:33	09/09/20 19:48	20
Lead	1.30	U	3.13	1.30	mg/Kg	☆	09/04/20 10:33	09/09/20 19:48	20
Antimony	2.08	U	5.21	2.08	mg/Kg	☆	09/04/20 10:33	09/09/20 19:48	20
Selenium	3.33	U	5.21	3.33	mg/Kg	☆	09/04/20 10:33	09/09/20 19:48	20
Thallium	2.08	U	5.21	2.08	mg/Kg	☆	09/04/20 10:33	09/09/20 19:48	20
Zinc	20.8	U	52.1	20.8	mg/Kg	☆	09/04/20 10:33	09/09/20 19:48	20
Uranium	0.417	U	1.04	0.417	mg/Kg	☆	09/04/20 10:33	09/09/20 19:48	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00382	U	0.0181	0.00382	mg/Kg	☆	09/02/20 13:16	09/03/20 14:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.5		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	86.5		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0198	U	0.132	0.0198	mg/Kg	☆	08/20/20 13:55	08/20/20 17:46	1
pH	8.9	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.551	J	0.571	0.479	mg/Kg	☆	08/20/20 12:06	08/20/20 16:01	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	125		10.0	10.0	mg/L			08/17/20 11:57	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	1.32		0.233	0.269	1.00	0.137	pCi/g	08/17/20 17:22	09/08/20 15:04	1
Radium-228	0.184	U	0.246	0.246		0.345	pCi/g	08/17/20 17:22	09/08/20 15:04	1
Combined Radium 226 + 228	1.50		0.339	0.365		0.345	pCi/g	08/17/20 17:22	09/08/20 15:04	1

Client Sample ID: CELL20-SQUARE204-S-2-3-200807

Lab Sample ID: 600-209489-2

Date Collected: 08/07/20 12:13

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.05	U	12.3	2.05	ug/Kg	☆	08/12/20 11:03	08/13/20 14:22	1
Vinyl chloride	1.11	U	12.3	1.11	ug/Kg	☆	08/12/20 11:03	08/13/20 14:22	1
Bromomethane	1.02	U	12.3	1.02	ug/Kg	☆	08/12/20 11:03	08/13/20 14:22	1
Trichlorofluoromethane	0.814	U	12.3	0.814	ug/Kg	☆	08/12/20 11:03	08/13/20 14:22	1
Acrolein	7.68	U	30.8	7.68	ug/Kg	☆	08/12/20 11:03	08/13/20 14:22	1
1,1-Dichloroethene	1.50	U	6.17	1.50	ug/Kg	☆	08/12/20 11:03	08/13/20 14:22	1
trans-1,2-Dichloroethene	1.41	U	6.17	1.41	ug/Kg	☆	08/12/20 11:03	08/13/20 14:22	1
Methyl tert-butyl ether	2.26	U	6.17	2.26	ug/Kg	☆	08/12/20 11:03	08/13/20 14:22	1
Methylene Chloride	4.21	J	12.3	2.70	ug/Kg	☆	08/12/20 11:03	08/13/20 14:22	1
Acrylonitrile	7.18	U	61.7	7.18	ug/Kg	☆	08/12/20 11:03	08/13/20 14:22	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE204-S-2-3-200807

Lab Sample ID: 600-209489-2

Date Collected: 08/07/20 12:13

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.02	U	6.17	1.02	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
Carbon tetrachloride	1.39	U	6.17	1.39	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
Benzene	0.777	U	6.17	0.777	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
1,2-Dichloroethane	1.11	U	6.17	1.11	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
Trichloroethene	1.73	U	6.17	1.73	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
1,1,1-Trichloroethane	0.913	U	6.17	0.913	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
1,1-Dichloroethane	1.07	U	6.17	1.07	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
1,2-Dichloropropane	0.876	U	6.17	0.876	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
1,4-Dioxane	76.6	U	6.17	76.6	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
Chloroform	2.42	J b	12.3	0.814	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
Bromodichloromethane	0.814	U	6.17	0.814	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
1,1-Dichloropropene	0.802	U	6.17	0.802	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
cis-1,3-Dichloropropene	0.666	U	6.17	0.666	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
Toluene	1.70	U	6.17	1.70	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
trans-1,3-Dichloropropene	0.715	U	6.17	0.715	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
1,1,2-Trichloroethane	0.900	U	6.17	0.900	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
Tetrachloroethene	0.876	U	6.17	0.876	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
1,3-Dichloropropene, Total	0.715	U	6.17	0.715	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
1,2-Dibromoethane	1.26	U	6.17	1.26	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
Monochlorobenzene	1.18	U	6.17	1.18	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
Ethylbenzene	1.26	U	6.17	1.26	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
Xylenes, Total	1.39	U	6.17	1.39	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
Styrene	0.876	U	6.17	0.876	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
Tribromomethane	1.69	U	6.17	1.69	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
1,1,2,2-Tetrachloroethane	1.07	U	6.17	1.07	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
1,4-Dichlorobenzene	0.814	U	6.17	0.814	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
1,2-Dichlorobenzene	0.987	U	6.17	0.987	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
1,2,4-Trichlorobenzene	2.43	U	6.17	2.43	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
Dichlorodifluoromethane	1.90	U	6.17	1.90	ug/Kg	✱	08/12/20 11:03	08/13/20 14:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		61 - 130				08/12/20 11:03	08/13/20 14:22	1
Dibromofluoromethane	88		68 - 140				08/12/20 11:03	08/13/20 14:22	1
Toluene-d8 (Surr)	83		50 - 130				08/12/20 11:03	08/13/20 14:22	1
4-Bromofluorobenzene	111		57 - 140				08/12/20 11:03	08/13/20 14:22	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.71	U	37.4	4.71	ug/Kg	✱	08/12/20 11:16	08/17/20 19:39	1
N-Nitrosodiethylamine	8.06	U	37.4	8.06	ug/Kg	✱	08/12/20 11:16	08/17/20 19:39	1
Bis(2-chloroethyl)ether	1.85	U	37.4	1.85	ug/Kg	✱	08/12/20 11:16	08/17/20 19:39	1
Hexachloroethane	2.59	U	37.4	2.59	ug/Kg	✱	08/12/20 11:16	08/17/20 19:39	1
N-Nitrosopyrrolidine	5.24	U	37.4	5.24	ug/Kg	✱	08/12/20 11:16	08/17/20 19:39	1
Nitrobenzene	3.32	U	37.4	3.32	ug/Kg	✱	08/12/20 11:16	08/17/20 19:39	1
Isophorone	1.12	U	37.4	1.12	ug/Kg	✱	08/12/20 11:16	08/17/20 19:39	1
2,4-Dichlorophenol	4.35	U	37.4	4.35	ug/Kg	✱	08/12/20 11:16	08/17/20 19:39	1
Naphthalene	1.52	U	37.4	1.52	ug/Kg	✱	08/12/20 11:16	08/17/20 19:39	1
Hexachlorobutadiene	2.16	U	37.4	2.16	ug/Kg	✱	08/12/20 11:16	08/17/20 19:39	1
N-Nitrosodi-n-butylamine	18.7	U	37.4	18.7	ug/Kg	✱	08/12/20 11:16	08/17/20 19:39	1
2-Methylnaphthalene	3.08	U	37.4	3.08	ug/Kg	✱	08/12/20 11:16	08/17/20 19:39	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE204-S-2-3-200807

Lab Sample ID: 600-209489-2

Date Collected: 08/07/20 12:13

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	1.76	U	37.4	1.76	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
1,2,4,5-Tetrachlorobenzene	7.58	U	37.4	7.58	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Hexachlorocyclopentadiene	5.18	U	37.4	5.18	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
2,4,6-Trichlorophenol	3.01	U	37.4	3.01	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
2,4,5-Trichlorophenol	11.2	U	37.4	11.2	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Dimethyl phthalate	5.49	U	74.9	5.49	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Acenaphthylene	1.12	U	37.4	1.12	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
2,6-Dinitrotoluene	3.31	U	37.4	3.31	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Acenaphthene	1.62	U	37.4	1.62	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Dinitrophenols	5.30	U	112	5.30	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Pentachlorobenzene	4.50	U	37.4	4.50	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
2,4-Dinitrotoluene	4.05	U	37.4	4.05	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Diethyl phthalate	9.47	U	74.9	9.47	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Fluorene	2.65	U	37.4	2.65	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Dinitro-o-cresol	5.59	U	191	5.59	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
N-Nitrosodiphenylamine	2.12	U	37.4	2.12	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Diphenylhydrazine, 1,2-	1.82	U	37.4	1.82	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Hexachlorobenzene	1.71	U	37.4	1.71	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Atrazine	5.64	U	37.4	5.64	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Pentachlorophenol	4.49	U	188	4.49	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Phenanthrene	5.56	U	37.4	5.56	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Anthracene	1.44	U	37.4	1.44	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Dibutylphthalate	15.0	J	74.9	2.91	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Fluoranthene	3.49	U	37.4	3.49	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Benzidine	10.1	U	371	10.1	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Pyrene	2.06	U	37.4	2.06	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Dichlorobenzidine, 3,3'-	11.4	U	37.4	11.4	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Benzo[a]anthracene	1.55	U	37.4	1.55	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Di (2-ethylhexyl)phthalate	41.9		37.4	6.03	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Chrysene	1.15	U	37.4	1.15	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Benzo[b]fluoranthene	1.93	U	37.4	1.93	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Benzo[k]fluoranthene	1.67	U	37.4	1.67	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Benzo[a]pyrene	1.81	U	37.4	1.81	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Indeno[1,2,3-cd]pyrene	3.93	U	37.4	3.93	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Dibenz(a,h)anthracene	4.08	U	37.4	4.08	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Benzo[g,h,i]perylene	5.69	U	37.4	5.69	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
bis (2-chloroisopropyl) ether	9.93	U	37.4	9.93	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1
Thiophene, tetrahydro-, 1,1-dioxide	18.7	U	37.4	18.7	ug/Kg	☆	08/12/20 11:16	08/17/20 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	32		10 - 148	08/12/20 11:16	08/17/20 19:39	1
2-Fluorobiphenyl	88		38 - 130	08/12/20 11:16	08/17/20 19:39	1
2-Fluorophenol	85		25 - 132	08/12/20 11:16	08/17/20 19:39	1
Nitrobenzene-d5	86		10 - 155	08/12/20 11:16	08/17/20 19:39	1
Terphenyl-d14	103		53 - 134	08/12/20 11:16	08/17/20 19:39	1
Phenol-d5 (Surr)	83		27 - 130	08/12/20 11:16	08/17/20 19:39	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.4	U	74.0	13.4	ug/Kg	☆	08/18/20 13:26	08/20/20 20:09	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE204-S-2-3-200807

Lab Sample ID: 600-209489-2

Date Collected: 08/07/20 12:13

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.5

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	60		30 - 164				08/18/20 13:26	08/20/20 20:09	1
Method: 8015B - Gasoline Range Organics - (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.708	U	1.21	0.708	mg/Kg	✱	08/08/20 15:03	08/13/20 13:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		70 - 130				08/08/20 15:03	08/13/20 13:42	1
Method: 8015B - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.89	U	8.44	2.89	mg/Kg	✱	08/10/20 15:56	08/13/20 21:25	1
C28-C36	8.44	U	8.44	8.44	mg/Kg	✱	08/10/20 15:56	08/13/20 21:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	135		60 - 140				08/10/20 15:56	08/13/20 21:25	1
Method: 8081A - Organochlorine Pesticides (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.48	U	1.92	1.48	ug/Kg	✱	08/11/20 09:01	08/26/20 12:07	1
Hexachlorocyclohexane, beta-	1.15	U	1.92	1.15	ug/Kg	✱	08/11/20 09:01	08/26/20 12:07	1
Hexachlorocyclohexane, delta-	0.959	U	1.92	0.959	ug/Kg	✱	08/11/20 09:01	08/26/20 12:07	1
Hexachlorocyclohexane, alpha-	1.13	U	1.92	1.13	ug/Kg	✱	08/11/20 09:01	08/26/20 12:07	1
Hexachlorocyclohexane, gamma-	1.05	U	1.92	1.05	ug/Kg	✱	08/11/20 09:01	08/26/20 12:07	1
Chlordane (technical)	26.4	U	84.6	26.4	ug/Kg	✱	08/11/20 09:01	08/26/20 12:07	1
DDT	2.09	U	3.72	2.09	ug/Kg	✱	08/11/20 09:01	08/26/20 12:07	1
Dieldrin	1.57	U	3.72	1.57	ug/Kg	✱	08/11/20 09:01	08/26/20 12:07	1
Endosulfan I	1.13	U	1.92	1.13	ug/Kg	✱	08/11/20 09:01	08/26/20 12:07	1
Endosulfan II	1.70	U	3.72	1.70	ug/Kg	✱	08/11/20 09:01	08/26/20 12:07	1
Endosulfan sulfate	1.90	U	3.72	1.90	ug/Kg	✱	08/11/20 09:01	08/26/20 12:07	1
Endrin	1.73	U	3.72	1.73	ug/Kg	✱	08/11/20 09:01	08/26/20 12:07	1
Endrin aldehyde	1.76	U	3.72	1.76	ug/Kg	✱	08/11/20 09:01	08/26/20 12:07	1
Heptachlor	1.05	U	1.92	1.05	ug/Kg	✱	08/11/20 09:01	08/26/20 12:07	1
Heptachlor epoxide	1.32	U	1.92	1.32	ug/Kg	✱	08/11/20 09:01	08/26/20 12:07	1
Toxaphene	82.5	U	192	82.5	ug/Kg	✱	08/11/20 09:01	08/26/20 12:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	111		47 - 150				08/11/20 09:01	08/26/20 12:07	1
Tetrachloro-m-xylene	81		50 - 143				08/11/20 09:01	08/26/20 12:07	1
Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00181	U	0.0188	0.00181	mg/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
PCB-1221	0.00974	U	0.0188	0.00974	mg/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
PCB-1232	0.00756	U	0.0188	0.00756	mg/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
PCB-1242	0.00140	U	0.0188	0.00140	mg/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
PCB-1248	0.00281	U	0.0188	0.00281	mg/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
PCB-1254	0.00249	U	0.0188	0.00249	mg/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
PCB-1260	0.0152	U	0.0188	0.0152	mg/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	57		10 - 150				08/11/20 09:01	08/13/20 13:47	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE204-S-2-3-200807

Lab Sample ID: 600-209489-2

Date Collected: 08/07/20 12:13

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		10 - 150	08/11/20 09:01	08/13/20 13:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.45	J	4.52	0.603	mg/Kg	✱		08/11/20 23:53	1
Nitrate as N	10.0		2.26	0.284	mg/Kg	✱		08/11/20 23:53	1
Fluoride	4.37		2.26	0.679	mg/Kg	✱		08/11/20 23:53	1
Nitrite as N	0.336	U	2.26	0.336	mg/Kg	✱		08/11/20 23:53	1
Sulfate	56.5		5.65	1.08	mg/Kg	✱		08/11/20 23:53	1

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0219	U	0.0965	0.0219	mg/Kg		08/12/20 15:04	08/13/20 23:35	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0415	U	0.193	0.0415	mg/Kg		08/12/20 15:04	08/13/20 23:35	1
2,4,6-Trinitrotoluene	0.0296	U	0.0965	0.0296	mg/Kg		08/12/20 15:04	08/13/20 23:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	102		83 - 122	08/12/20 15:04	08/13/20 23:35	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0863	U	0.524	0.0863	ug/Kg	✱	08/12/20 11:00	08/20/20 16:04	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.255	U	0.888	0.255	ug/Kg	✱	08/17/20 14:49	08/24/20 14:24	1
Perfluorohexanesulfonic acid (PFHxS)	0.311	U	0.888	0.311	ug/Kg	✱	08/17/20 14:49	08/24/20 14:24	1
Perfluorooctanesulfonic acid (PFOS)	0.155	U	0.888	0.155	ug/Kg	✱	08/17/20 14:49	08/24/20 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	105		57 - 153	08/17/20 14:49	08/24/20 14:24	1
13C8 PFOS	95		70 - 130	08/17/20 14:49	08/24/20 14:24	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.842	U	2.24	0.842	mg/Kg	✱	09/04/20 10:33	09/09/20 19:51	20
Arsenic	5.04	J	11.2	4.49	mg/Kg	✱	09/04/20 10:33	09/09/20 19:51	20
Barium	331		22.4	5.61	mg/Kg	✱	09/04/20 10:33	09/09/20 19:51	20
Beryllium	0.449	U	1.12	0.449	mg/Kg	✱	09/04/20 10:33	09/09/20 19:51	20
Cadmium	0.269	U	0.561	0.269	mg/Kg	✱	09/04/20 10:33	09/09/20 19:51	20
Chromium	5.05	U	11.2	5.05	mg/Kg	✱	09/04/20 10:33	09/09/20 19:51	20
Iron	1640		135	67.3	mg/Kg	✱	09/04/20 10:33	09/09/20 19:51	20
Copper	4.49	U	11.2	4.49	mg/Kg	✱	09/04/20 10:33	09/09/20 19:51	20
Manganese	15.4		5.61	2.24	mg/Kg	✱	09/04/20 10:33	09/09/20 19:51	20
Lead	1.40	U	3.37	1.40	mg/Kg	✱	09/04/20 10:33	09/09/20 19:51	20
Antimony	2.24	U	5.61	2.24	mg/Kg	✱	09/04/20 10:33	09/09/20 19:51	20
Selenium	3.59	U	5.61	3.59	mg/Kg	✱	09/04/20 10:33	09/09/20 19:51	20
Thallium	2.24	U	5.61	2.24	mg/Kg	✱	09/04/20 10:33	09/09/20 19:51	20
Zinc	22.4	U	56.1	22.4	mg/Kg	✱	09/04/20 10:33	09/09/20 19:51	20
Uranium	0.449	U	1.12	0.449	mg/Kg	✱	09/04/20 10:33	09/09/20 19:51	20

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Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE204-S-2-3-200807

Lab Sample ID: 600-209489-2

Date Collected: 08/07/20 12:13

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.5

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00373	U	0.0177	0.00373	mg/Kg	☆	09/02/20 13:16	09/03/20 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	88.5		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0199	U	0.132	0.0199	mg/Kg	☆	08/20/20 13:55	08/20/20 17:49	1
pH	8.5	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.469	U	0.559	0.469	mg/Kg	☆	08/21/20 12:16	08/21/20 13:49	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	87.0		10.0	10.0	mg/L			08/17/20 11:57	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	0.967		0.182	0.208	1.00	0.132	pCi/g	08/17/20 17:22	09/08/20 12:56	1
Radium-228	-0.0273	U	0.242	0.242		0.295	pCi/g	08/17/20 17:22	09/08/20 12:56	1
Combined Radium 226 + 228	0.940		0.303	0.319		0.295	pCi/g	08/17/20 17:22	09/08/20 12:56	1

Client Sample ID: CELL20-SQUARE15-S-2-3-200807

Lab Sample ID: 600-209489-3

Date Collected: 08/07/20 12:59

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 92.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.71	U	10.3	1.71	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Vinyl chloride	0.926	U	10.3	0.926	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Bromomethane	0.854	U	10.3	0.854	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Trichlorofluoromethane	0.679	U	10.3	0.679	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Acrolein	6.41	U	25.7	6.41	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
1,1-Dichloroethene	1.25	U	5.14	1.25	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
trans-1,2-Dichloroethene	1.17	U	5.14	1.17	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Methyl tert-butyl ether	1.88	U	5.14	1.88	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Methylene Chloride	2.25	U	10.3	2.25	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Acrylonitrile	5.99	U	51.4	5.99	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
cis-1,2-Dichloroethene	0.854	U	5.14	0.854	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Carbon tetrachloride	1.16	U	5.14	1.16	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Benzene	0.648	U	5.14	0.648	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
1,2-Dichloroethane	0.926	U	5.14	0.926	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Trichloroethene	1.44	U	5.14	1.44	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
1,1,1-Trichloroethane	0.761	U	5.14	0.761	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
1,1-Dichloroethane	0.895	U	5.14	0.895	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
1,2-Dichloropropane	0.730	U	5.14	0.730	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
1,4-Dioxane	63.8	U	514	63.8	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Chloroform	1.91	J b	10.3	0.679	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Bromodichloromethane	0.679	U	5.14	0.679	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
1,1-Dichloropropene	0.668	U	5.14	0.668	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE15-S-2-3-200807

Lab Sample ID: 600-209489-3

Date Collected: 08/07/20 12:59

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 92.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.555	U	5.14	0.555	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Toluene	1.42	U	5.14	1.42	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
trans-1,3-Dichloropropene	0.596	U	5.14	0.596	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
1,1,2-Trichloroethane	0.751	U	5.14	0.751	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Tetrachloroethene	0.730	U	5.14	0.730	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
1,3-Dichloropropene, Total	0.596	U	5.14	0.596	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
1,2-Dibromoethane	1.05	U	5.14	1.05	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Monochlorobenzene	0.987	U	5.14	0.987	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Ethylbenzene	1.05	U	5.14	1.05	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Xylenes, Total	1.16	U	5.14	1.16	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Styrene	0.730	U	5.14	0.730	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Tribromomethane	1.41	U	5.14	1.41	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
1,1,2,2-Tetrachloroethane	0.895	U	5.14	0.895	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
1,4-Dichlorobenzene	0.679	U	5.14	0.679	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
1,2-Dichlorobenzene	0.823	U	5.14	0.823	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
1,2,4-Trichlorobenzene	2.03	U	5.14	2.03	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1
Dichlorodifluoromethane	1.58	U	5.14	1.58	ug/Kg	☆	08/12/20 11:03	08/13/20 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		61 - 130	08/12/20 11:03	08/13/20 14:46	1
Dibromofluoromethane	86		68 - 140	08/12/20 11:03	08/13/20 14:46	1
Toluene-d8 (Surr)	87		50 - 130	08/12/20 11:03	08/13/20 14:46	1
4-Bromofluorobenzene	108		57 - 140	08/12/20 11:03	08/13/20 14:46	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.49	U	35.7	4.49	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
N-Nitrosodiethylamine	7.69	U	35.7	7.69	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Bis(2-chloroethyl)ether	1.77	U	35.7	1.77	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Hexachloroethane	2.47	U	35.7	2.47	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
N-Nitrosopyrrolidine	5.00	U	35.7	5.00	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Nitrobenzene	3.17	U	35.7	3.17	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Isophorone	1.07	U	35.7	1.07	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
2,4-Dichlorophenol	4.15	U	35.7	4.15	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Naphthalene	1.45	U	35.7	1.45	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Hexachlorobutadiene	2.06	U	35.7	2.06	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
N-Nitrosodi-n-butylamine	17.9	U	35.7	17.9	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
2-Methylnaphthalene	2.94	U	35.7	2.94	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
1-Methylnaphthalene	1.68	U	35.7	1.68	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
1,2,4,5-Tetrachlorobenzene	7.23	U	35.7	7.23	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Hexachlorocyclopentadiene	4.94	U	35.7	4.94	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
2,4,6-Trichlorophenol	2.87	U	35.7	2.87	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
2,4,5-Trichlorophenol	10.7	U	35.7	10.7	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Dimethyl phthalate	5.24	U	71.5	5.24	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Acenaphthylene	1.07	U	35.7	1.07	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
2,6-Dinitrotoluene	3.16	U	35.7	3.16	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Acenaphthene	1.54	U	35.7	1.54	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Dinitrophenols	5.06	U	107	5.06	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Pentachlorobenzene	4.30	U	35.7	4.30	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
2,4-Dinitrotoluene	3.87	U	35.7	3.87	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE15-S-2-3-200807

Lab Sample ID: 600-209489-3

Date Collected: 08/07/20 12:59

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 92.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	9.03	U	71.5	9.03	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Fluorene	2.53	U	35.7	2.53	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Dinitro-o-cresol	5.34	U	182	5.34	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
N-Nitrosodiphenylamine	2.02	U	35.7	2.02	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Diphenylhydrazine, 1,2-	1.74	U	35.7	1.74	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Hexachlorobenzene	1.63	U	35.7	1.63	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Atrazine	5.38	U	35.7	5.38	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Pentachlorophenol	4.29	U	179	4.29	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Phenanthrene	5.30	U	35.7	5.30	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Anthracene	1.37	U	35.7	1.37	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Dibutylphthalate	6.06	J	71.5	2.77	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Fluoranthene	3.33	U	35.7	3.33	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Benzidine	9.66	U	354	9.66	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Pyrene	1.96	U	35.7	1.96	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Dichlorobenzidine, 3,3'-	10.9	U	35.7	10.9	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Benzo[a]anthracene	1.48	U	35.7	1.48	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Di (2-ethylhexyl)phthalate	31.2	J	35.7	5.75	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Chrysene	1.09	U	35.7	1.09	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Benzo[b]fluoranthene	1.84	U	35.7	1.84	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Benzo[k]fluoranthene	1.60	U	35.7	1.60	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Benzo[a]pyrene	1.72	U	35.7	1.72	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Indeno[1,2,3-cd]pyrene	3.75	U	35.7	3.75	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Dibenz(a,h)anthracene	3.89	U	35.7	3.89	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Benzo[g,h,i]perylene	5.43	U	35.7	5.43	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
bis (2-chloroisopropyl) ether	9.47	U	35.7	9.47	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1
Thiophene, tetrahydro-, 1,1-dioxide	17.9	U	35.7	17.9	ug/Kg	☆	08/12/20 11:16	08/17/20 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	66		10 - 148	08/12/20 11:16	08/17/20 20:03	1
2-Fluorobiphenyl	78		38 - 130	08/12/20 11:16	08/17/20 20:03	1
2-Fluorophenol	77		25 - 132	08/12/20 11:16	08/17/20 20:03	1
Nitrobenzene-d5	76		10 - 155	08/12/20 11:16	08/17/20 20:03	1
Terphenyl-d14	102		53 - 134	08/12/20 11:16	08/17/20 20:03	1
Phenol-d5 (Surr)	63		27 - 130	08/12/20 11:16	08/17/20 20:03	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.8	U	70.2	12.8	ug/Kg	☆	08/18/20 13:26	08/20/20 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	76		30 - 164	08/18/20 13:26	08/20/20 20:34	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.627	U	1.07	0.627	mg/Kg	☆	08/08/20 15:03	08/13/20 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	100		70 - 130	08/08/20 15:03	08/13/20 14:07	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE15-S-2-3-200807

Lab Sample ID: 600-209489-3

Date Collected: 08/07/20 12:59

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 92.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.74	U	8.01	2.74	mg/Kg	✱	08/10/20 15:56	08/13/20 21:59	1
C28-C36	8.01	U	8.01	8.01	mg/Kg	✱	08/10/20 15:56	08/13/20 21:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	121		60 - 140				08/10/20 15:56	08/13/20 21:59	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.41	U	1.83	1.41	ug/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
Hexachlorocyclohexane, beta-	1.10	U	1.83	1.10	ug/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
Hexachlorocyclohexane, delta-	0.914	U	1.83	0.914	ug/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
Hexachlorocyclohexane, alpha-	1.07	U	1.83	1.07	ug/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
Hexachlorocyclohexane, gamma-	1.00	U	1.83	1.00	ug/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
Chlordane (technical)	25.2	U	80.6	25.2	ug/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
DDT	1.99	U	3.55	1.99	ug/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
Dieldrin	1.49	U	3.55	1.49	ug/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
Endosulfan I	1.07	U	1.83	1.07	ug/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
Endosulfan II	1.62	U	3.55	1.62	ug/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
Endosulfan sulfate	1.81	U	3.55	1.81	ug/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
Endrin	1.64	U	3.55	1.64	ug/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
Endrin aldehyde	1.68	U	3.55	1.68	ug/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
Heptachlor	1.00	U	1.83	1.00	ug/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
Heptachlor epoxide	1.26	U	1.83	1.26	ug/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
Toxaphene	78.6	U	183	78.6	ug/Kg	✱	08/11/20 09:01	08/13/20 13:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>DCB</i> Decachlorobiphenyl	84		47 - 150				08/11/20 09:01	08/13/20 13:47	1
<i>Tetrachloro-m-xylene</i>	88		50 - 143				08/11/20 09:01	08/13/20 13:47	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00172	U	0.0180	0.00172	mg/Kg	✱	08/11/20 09:01	08/13/20 14:12	1
PCB-1221	0.00928	U	0.0180	0.00928	mg/Kg	✱	08/11/20 09:01	08/13/20 14:12	1
PCB-1232	0.00720	U	0.0180	0.00720	mg/Kg	✱	08/11/20 09:01	08/13/20 14:12	1
PCB-1242	0.00133	U	0.0180	0.00133	mg/Kg	✱	08/11/20 09:01	08/13/20 14:12	1
PCB-1248	0.00268	U	0.0180	0.00268	mg/Kg	✱	08/11/20 09:01	08/13/20 14:12	1
PCB-1254	0.00238	U	0.0180	0.00238	mg/Kg	✱	08/11/20 09:01	08/13/20 14:12	1
PCB-1260	0.0145	U	0.0180	0.0145	mg/Kg	✱	08/11/20 09:01	08/13/20 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	271	X	10 - 150				08/11/20 09:01	08/13/20 14:12	1
<i>DCB</i> Decachlorobiphenyl	386	X	10 - 150				08/11/20 09:01	08/13/20 14:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.0		4.31	0.576	mg/Kg	✱		08/12/20 00:54	1
Nitrate as N	12.0		2.16	0.271	mg/Kg	✱		08/12/20 00:54	1
Fluoride	9.65		2.16	0.648	mg/Kg	✱		08/12/20 00:54	1
Nitrite as N	0.320	U	2.16	0.320	mg/Kg	✱		08/12/20 00:54	1
Sulfate	194		5.39	1.03	mg/Kg	✱		08/12/20 00:54	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE15-S-2-3-200807

Lab Sample ID: 600-209489-3

Date Collected: 08/07/20 12:59

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 92.8

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	0.0988	0.0224	mg/Kg		08/12/20 15:04	08/13/20 23:58	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0425	U	0.198	0.0425	mg/Kg		08/12/20 15:04	08/13/20 23:58	1
2,4,6-Trinitrotoluene	0.0303	U	0.0988	0.0303	mg/Kg		08/12/20 15:04	08/13/20 23:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	103		83 - 122				08/12/20 15:04	08/13/20 23:58	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0849	U	0.515	0.0849	ug/Kg	✱	08/12/20 11:00	08/20/20 16:24	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.243	U	0.845	0.243	ug/Kg	✱	08/17/20 14:49	08/24/20 14:33	1
Perfluorohexanesulfonic acid (PFHxS)	0.296	U	0.845	0.296	ug/Kg	✱	08/17/20 14:49	08/24/20 14:33	1
Perfluorooctanesulfonic acid (PFOS)	0.148	U	0.845	0.148	ug/Kg	✱	08/17/20 14:49	08/24/20 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	102		57 - 153				08/17/20 14:49	08/24/20 14:33	1
13C8 PFOS	97		70 - 130				08/17/20 14:49	08/24/20 14:33	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.685	U	1.83	0.685	mg/Kg	✱	09/04/20 10:33	09/09/20 19:55	20
Arsenic	4.33	J	9.14	3.65	mg/Kg	✱	09/04/20 10:33	09/09/20 19:55	20
Barium	209		18.3	4.57	mg/Kg	✱	09/04/20 10:33	09/09/20 19:55	20
Beryllium	0.365	U	0.914	0.365	mg/Kg	✱	09/04/20 10:33	09/09/20 19:55	20
Cadmium	0.219	U	0.457	0.219	mg/Kg	✱	09/04/20 10:33	09/09/20 19:55	20
Chromium	4.11	U	9.14	4.11	mg/Kg	✱	09/04/20 10:33	09/09/20 19:55	20
Iron	1740		110	54.8	mg/Kg	✱	09/04/20 10:33	09/09/20 19:55	20
Copper	3.65	U	9.14	3.65	mg/Kg	✱	09/04/20 10:33	09/09/20 19:55	20
Manganese	21.1		4.57	1.83	mg/Kg	✱	09/04/20 10:33	09/09/20 19:55	20
Lead	1.14	U	2.74	1.14	mg/Kg	✱	09/04/20 10:33	09/09/20 19:55	20
Antimony	1.83	U	4.57	1.83	mg/Kg	✱	09/04/20 10:33	09/09/20 19:55	20
Selenium	2.92	U	4.57	2.92	mg/Kg	✱	09/04/20 10:33	09/09/20 19:55	20
Thallium	1.83	U	4.57	1.83	mg/Kg	✱	09/04/20 10:33	09/09/20 19:55	20
Zinc	18.3	U	45.7	18.3	mg/Kg	✱	09/04/20 10:33	09/09/20 19:55	20
Uranium	0.365	U	0.914	0.365	mg/Kg	✱	09/04/20 10:33	09/09/20 19:55	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00584	J	0.0172	0.00362	mg/Kg	✱	09/02/20 13:16	09/03/20 14:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.2		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	92.8		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0191	U	0.127	0.0191	mg/Kg	✱	08/20/20 13:55	08/20/20 17:49	1
pH	9.1	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.450	U	0.537	0.450	mg/Kg	✱	08/21/20 12:16	08/21/20 13:50	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE15-S-2-3-200807

Lab Sample ID: 600-209489-3

Date Collected: 08/07/20 12:59

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 92.8

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	144		10.0	10.0	mg/L			08/17/20 11:57	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	1.04		0.140	0.177	1.00	0.0761	pCi/g	08/17/20 17:22	09/08/20 13:55	1
Radium-228	0.0652	U	0.182	0.183		0.209	pCi/g	08/17/20 17:22	09/08/20 13:55	1
Combined Radium 226 + 228	1.10		0.230	0.255		0.209	pCi/g	08/17/20 17:22	09/08/20 13:55	1

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Definitions/Glossary

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

Job ID: 600-209489-1

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

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result is greater than the UQL and the concentration is an estimated value.
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 VOA

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

GC Semi VOA

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

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
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)

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Definitions/Glossary

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

Job ID: 600-209489-1

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

Surrogate Summary

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

Job ID: 600-209489-1

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 (61-130)	DBFM (68-140)	TOL (50-130)	BFB (57-140)
600-209489-1	CELL20-SQUARE79-S-2-3-2008	103	89	88	103
600-209489-2	CELL20-SQUARE204-S-2-3-200807	99	88	83	111
600-209489-3	CELL20-SQUARE15-S-2-3-200807	102	86	87	108
LCS 600-301050/3	Lab Control Sample	86	87	97	112
LCSD 600-301050/4	Lab Control Sample Dup	80	82	92	103
MB 600-301050/6	Method Blank	103	90	94	111

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

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (10-148)	FBP (38-130)	2FP (25-132)	NBZ (10-155)	TPHL (53-134)	PHL (27-130)
600-209489-1	CELL20-SQUARE79-S-2-3-2008	46	79	69	76	103	73
600-209489-2	CELL20-SQUARE204-S-2-3-200807	32	88	85	86	103	83
600-209489-3	CELL20-SQUARE15-S-2-3-200807	66	78	77	76	102	63
LCS 600-300979/24-A	Lab Control Sample	99	95	87	91	116	89
LCS 600-300979/25-A	Lab Control Sample	56	85	73	84	109	79
LCS 600-300979/2-A	Lab Control Sample	100	98	91	95	112	93
MB 600-300979/1-A	Method Blank	76	90	84	89	113	84

Surrogate Legend
TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14
PHL = Phenol-d5 (Surr)

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)					
600-209489-1	CELL20-SQUARE79-S-2-3-2008	80					
600-209489-2	CELL20-SQUARE204-S-2-3-200807	60					
600-209489-3	CELL20-SQUARE15-S-2-3-200807	76					
LCS 400-500724/2-A	Lab Control Sample	87					
MB 400-500724/1-A	Method Blank	75					

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Surrogate Summary

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

Job ID: 600-209489-1

Surrogate Legend

TPP = Triphenylphosphate

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFT1 (70-130)
600-209489-1	CELL20-SQUARE79-S-2-3-2008	101
600-209489-2	CELL20-SQUARE204-S-2-3-200807	104
600-209489-3	CELL20-SQUARE15-S-2-3-200807	100

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH1 (60-140)
600-209489-1	CELL20-SQUARE79-S-2-3-2008	74
600-209489-2	CELL20-SQUARE204-S-2-3-200807	135
600-209489-3	CELL20-SQUARE15-S-2-3-200807	121
LCS 600-300806/2-A	Lab Control Sample	131
LCSD 600-300806/3-A	Lab Control Sample Dup	131
MB 600-300806/1-A	Method Blank	125

Surrogate Legend

OTPH = o-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP1 (47-150)	TCX1 (50-143)
600-209489-1	CELL20-SQUARE79-S-2-3-2008	95	80
600-209489-2	CELL20-SQUARE204-S-2-3-200807	111	81
600-209489-3	CELL20-SQUARE15-S-2-3-200807	84	88
LCS 600-300862/2-A	Lab Control Sample	76	74
LCSD 600-300862/3-A	Lab Control Sample Dup	104	89
MB 600-300862/1-A	Method Blank	127	116

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

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Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209489-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (10-150)	DCBP1 (10-150)
600-209489-1	CELL20-SQUARE79-S-2-3-2008	87	109
600-209489-2	CELL20-SQUARE204-S-2-3-200807	57	84
600-209489-3	CELL20-SQUARE15-S-2-3-200807	271 X	386 X
Surrogate Legend			
TCX = Tetrachloro-m-xylene			
DCBP = DCB Decachlorobiphenyl			

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)	
600-209489-1	CELL20-SQUARE79-S-2-3-2008	104	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	102	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	103	
LCS 280-505436/2-A	Lab Control Sample	106	
MB 280-505436/1-A	Method Blank	102	
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)
600-209489-1	CELL20-SQUARE79-S-2-3-2008	102	95
600-209489-2	CELL20-SQUARE204-S-2-3-200807	105	95
600-209489-3	CELL20-SQUARE15-S-2-3-200807	102	97
DLCK 280-500633/14	Lab Control Sample	108	91
LCS 280-505864/2-A	Lab Control Sample	101	98
MB 280-505864/1-A	Method Blank	104	94
Surrogate Legend			
C8PFOA = 13C8 PFOA			
C8PFOS = 13C8 PFOS			

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QC Sample Results

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

Job ID: 600-209489-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-301050/6

Matrix: Solid

Analysis Batch: 301050

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.66	U	10.0	1.66	ug/Kg			08/13/20 09:16	1
Vinyl chloride	0.900	U	10.0	0.900	ug/Kg			08/13/20 09:16	1
Bromomethane	0.830	U	10.0	0.830	ug/Kg			08/13/20 09:16	1
Trichlorofluoromethane	0.660	U	10.0	0.660	ug/Kg			08/13/20 09:16	1
Acrolein	6.23	U	25.0	6.23	ug/Kg			08/13/20 09:16	1
1,1-Dichloroethene	1.22	U	5.00	1.22	ug/Kg			08/13/20 09:16	1
trans-1,2-Dichloroethene	1.14	U	5.00	1.14	ug/Kg			08/13/20 09:16	1
Methyl tert-butyl ether	1.83	U	5.00	1.83	ug/Kg			08/13/20 09:16	1
Methylene Chloride	2.19	U	10.0	2.19	ug/Kg			08/13/20 09:16	1
Acrylonitrile	5.82	U	50.0	5.82	ug/Kg			08/13/20 09:16	1
cis-1,2-Dichloroethene	0.830	U	5.00	0.830	ug/Kg			08/13/20 09:16	1
Carbon tetrachloride	1.13	U	5.00	1.13	ug/Kg			08/13/20 09:16	1
Benzene	0.630	U	5.00	0.630	ug/Kg			08/13/20 09:16	1
1,2-Dichloroethane	0.900	U	5.00	0.900	ug/Kg			08/13/20 09:16	1
Trichloroethene	1.40	U	5.00	1.40	ug/Kg			08/13/20 09:16	1
1,1,1-Trichloroethane	0.740	U	5.00	0.740	ug/Kg			08/13/20 09:16	1
1,1-Dichloroethane	0.870	U	5.00	0.870	ug/Kg			08/13/20 09:16	1
1,2-Dichloropropane	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
1,4-Dioxane	62.1	U	500	62.1	ug/Kg			08/13/20 09:16	1
Chloroform	1.495	J	10.0	0.660	ug/Kg			08/13/20 09:16	1
Bromodichloromethane	0.660	U	5.00	0.660	ug/Kg			08/13/20 09:16	1
1,1-Dichloropropene	0.650	U	5.00	0.650	ug/Kg			08/13/20 09:16	1
cis-1,3-Dichloropropene	0.540	U	5.00	0.540	ug/Kg			08/13/20 09:16	1
Toluene	1.38	U	5.00	1.38	ug/Kg			08/13/20 09:16	1
trans-1,3-Dichloropropene	0.580	U	5.00	0.580	ug/Kg			08/13/20 09:16	1
1,1,2-Trichloroethane	0.730	U	5.00	0.730	ug/Kg			08/13/20 09:16	1
Tetrachloroethene	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
1,3-Dichloropropene, Total	0.580	U	5.00	0.580	ug/Kg			08/13/20 09:16	1
1,2-Dibromoethane	1.02	U	5.00	1.02	ug/Kg			08/13/20 09:16	1
Monochlorobenzene	0.960	U	5.00	0.960	ug/Kg			08/13/20 09:16	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			08/13/20 09:16	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			08/13/20 09:16	1
Styrene	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
Tribromomethane	1.37	U	5.00	1.37	ug/Kg			08/13/20 09:16	1
1,1,2,2-Tetrachloroethane	0.870	U	5.00	0.870	ug/Kg			08/13/20 09:16	1
1,4-Dichlorobenzene	0.660	U	5.00	0.660	ug/Kg			08/13/20 09:16	1
1,2-Dichlorobenzene	0.800	U	5.00	0.800	ug/Kg			08/13/20 09:16	1
1,2,4-Trichlorobenzene	1.97	U	5.00	1.97	ug/Kg			08/13/20 09:16	1
Dichlorodifluoromethane	1.54	U	5.00	1.54	ug/Kg			08/13/20 09:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		61 - 130		08/13/20 09:16	1
Dibromofluoromethane	90		68 - 140		08/13/20 09:16	1
Toluene-d8 (Surr)	94		50 - 130		08/13/20 09:16	1
4-Bromofluorobenzene	111		57 - 140		08/13/20 09:16	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209489-1

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

Lab Sample ID: LCS 600-301050/3

Matrix: Solid

Analysis Batch: 301050

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	62.60		ug/Kg		125	44 - 141
Vinyl chloride	50.0	56.81		ug/Kg		114	40 - 148
Bromomethane	50.0	47.04		ug/Kg		94	37 - 147
Trichlorofluoromethane	50.0	58.99		ug/Kg		118	53 - 134
Acrolein	250	187.8		ug/Kg		75	10 - 150
1,1-Dichloroethene	50.0	43.46		ug/Kg		87	62 - 142
trans-1,2-Dichloroethene	50.0	45.56		ug/Kg		91	69 - 130
Methyl tert-butyl ether	50.0	48.13		ug/Kg		96	63 - 132
Methylene Chloride	50.0	45.62		ug/Kg		91	61 - 150
Acrylonitrile	500	427.0		ug/Kg		85	43 - 150
cis-1,2-Dichloroethene	50.0	45.90		ug/Kg		92	70 - 130
Carbon tetrachloride	50.0	51.32		ug/Kg		103	58 - 130
Benzene	50.0	46.71		ug/Kg		93	70 - 131
1,2-Dichloroethane	50.0	50.78		ug/Kg		102	58 - 137
Trichloroethene	50.0	43.91		ug/Kg		88	63 - 135
1,1,1-Trichloroethane	50.0	53.00		ug/Kg		106	59 - 130
1,1-Dichloroethane	50.0	50.37		ug/Kg		101	63 - 140
1,2-Dichloropropane	50.0	48.85		ug/Kg		98	70 - 130
1,4-Dioxane	1000	710.8		ug/Kg		71	31 - 150
Chloroform	50.0	50.39		ug/Kg		101	69 - 130
Bromodichloromethane	50.0	50.13		ug/Kg		100	67 - 138
1,1-Dichloropropene	50.0	50.16		ug/Kg		100	67 - 130
cis-1,3-Dichloropropene	50.0	47.14		ug/Kg		94	65 - 130
Toluene	50.0	47.87		ug/Kg		96	67 - 130
trans-1,3-Dichloropropene	50.0	48.68		ug/Kg		97	70 - 130
1,1,2-Trichloroethane	50.0	44.09		ug/Kg		88	67 - 134
Tetrachloroethene	50.0	45.09		ug/Kg		90	43 - 143
1,3-Dichloropropene, Total	100	95.82		ug/Kg		96	70 - 130
1,2-Dibromoethane	50.0	41.52		ug/Kg		83	65 - 136
Monochlorobenzene	50.0	46.20		ug/Kg		92	63 - 131
Ethylbenzene	50.0	45.93		ug/Kg		92	66 - 130
Xylenes, Total	100	93.07		ug/Kg		93	63 - 130
Styrene	50.0	45.04		ug/Kg		90	65 - 133
Tribromomethane	50.0	47.04		ug/Kg		94	43 - 150
1,1,2,2-Tetrachloroethane	50.0	46.75		ug/Kg		94	61 - 138
1,4-Dichlorobenzene	50.0	49.09		ug/Kg		98	65 - 131
1,2-Dichlorobenzene	50.0	49.00		ug/Kg		98	61 - 131
1,2,4-Trichlorobenzene	50.0	45.91		ug/Kg		92	53 - 136
Dichlorodifluoromethane	50.0	67.00		ug/Kg		134	24 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		61 - 130
Dibromofluoromethane	87		68 - 140
Toluene-d8 (Surr)	97		50 - 130
4-Bromofluorobenzene	112		57 - 140

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209489-1

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

Lab Sample ID: LCSD 600-301050/4

Matrix: Solid

Analysis Batch: 301050

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
Chloromethane	50.0	70.57		ug/Kg		141	44 - 141	12	30
Vinyl chloride	50.0	60.70		ug/Kg		121	40 - 148	7	30
Bromomethane	50.0	54.12		ug/Kg		108	37 - 147	14	30
Trichlorofluoromethane	50.0	62.29		ug/Kg		125	53 - 134	5	30
Acrolein	250	187.8		ug/Kg		75	10 - 150	0	30
1,1-Dichloroethene	50.0	48.43		ug/Kg		97	62 - 142	11	30
trans-1,2-Dichloroethene	50.0	49.66		ug/Kg		99	69 - 130	9	30
Methyl tert-butyl ether	50.0	47.56		ug/Kg		95	63 - 132	1	30
Methylene Chloride	50.0	50.95		ug/Kg		102	61 - 150	11	30
Acrylonitrile	500	434.3		ug/Kg		87	43 - 150	2	30
cis-1,2-Dichloroethene	50.0	47.09		ug/Kg		94	70 - 130	3	30
Carbon tetrachloride	50.0	52.91		ug/Kg		106	58 - 130	3	30
Benzene	50.0	49.53		ug/Kg		99	70 - 131	6	30
1,2-Dichloroethane	50.0	53.19		ug/Kg		106	58 - 137	5	30
Trichloroethene	50.0	45.48		ug/Kg		91	63 - 135	4	30
1,1,1-Trichloroethane	50.0	55.40		ug/Kg		111	59 - 130	4	30
1,1-Dichloroethane	50.0	53.77		ug/Kg		108	63 - 140	7	30
1,2-Dichloropropane	50.0	51.35		ug/Kg		103	70 - 130	5	30
1,4-Dioxane	1000	632.7		ug/Kg		63	31 - 150	12	30
Chloroform	50.0	52.23		ug/Kg		104	69 - 130	4	30
Bromodichloromethane	50.0	49.98		ug/Kg		100	67 - 138	0	30
1,1-Dichloropropene	50.0	51.98		ug/Kg		104	67 - 130	4	30
cis-1,3-Dichloropropene	50.0	50.70		ug/Kg		101	65 - 130	7	30
Toluene	50.0	50.63		ug/Kg		101	67 - 130	6	30
trans-1,3-Dichloropropene	50.0	51.03		ug/Kg		102	70 - 130	5	30
1,1,2-Trichloroethane	50.0	44.91		ug/Kg		90	67 - 134	2	30
Tetrachloroethene	50.0	48.92		ug/Kg		98	43 - 143	8	30
1,3-Dichloropropene, Total	100	101.7		ug/Kg		102	70 - 130	6	30
1,2-Dibromoethane	50.0	43.77		ug/Kg		88	65 - 136	5	30
Monochlorobenzene	50.0	48.77		ug/Kg		98	63 - 131	5	30
Ethylbenzene	50.0	48.16		ug/Kg		96	66 - 130	5	30
Xylenes, Total	100	98.14		ug/Kg		98	63 - 130	5	30
Styrene	50.0	47.92		ug/Kg		96	65 - 133	6	30
Tribromomethane	50.0	47.54		ug/Kg		95	43 - 150	1	30
1,1,2,2-Tetrachloroethane	50.0	45.97		ug/Kg		92	61 - 138	2	30
1,4-Dichlorobenzene	50.0	51.20		ug/Kg		102	65 - 131	4	30
1,2-Dichlorobenzene	50.0	52.28		ug/Kg		105	61 - 131	6	30
1,2,4-Trichlorobenzene	50.0	50.70		ug/Kg		101	53 - 136	10	30
Dichlorodifluoromethane	50.0	69.88		ug/Kg		140	24 - 147	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		61 - 130
Dibromofluoromethane	82		68 - 140
Toluene-d8 (Surr)	92		50 - 130
4-Bromofluorobenzene	103		57 - 140

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209489-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-300979/1-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.17	U	33.1	4.17	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiethylamine	7.14	U	33.1	7.14	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Bis(2-chloroethyl)ether	1.64	U	33.1	1.64	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachloroethane	2.30	U	33.1	2.30	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosopyrrolidine	4.65	U	33.1	4.65	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene	2.94	U	33.1	2.94	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Isophorone	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dichlorophenol	3.85	U	33.1	3.85	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Naphthalene	1.34	U	33.1	1.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobutadiene	1.91	U	33.1	1.91	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodi-n-butylamine	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2-Methylnaphthalene	2.73	U	33.1	2.73	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1-Methylnaphthalene	1.56	U	33.1	1.56	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1,2,4,5-Tetrachlorobenzene	6.71	U	33.1	6.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorocyclopentadiene	4.59	U	33.1	4.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,6-Trichlorophenol	2.67	U	33.1	2.67	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,5-Trichlorophenol	9.96	U	33.1	9.96	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dimethyl phthalate	4.86	U	66.3	4.86	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthylene	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,6-Dinitrotoluene	2.93	U	33.1	2.93	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthene	1.43	U	33.1	1.43	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitrophenols	4.69	U	99.5	4.69	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorobenzene	3.99	U	33.1	3.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dinitrotoluene	3.59	U	33.1	3.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diethyl phthalate	8.39	U	66.3	8.39	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluorene	2.35	U	33.1	2.35	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitro-o-cresol	4.95	U	169	4.95	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiphenylamine	1.88	U	33.1	1.88	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diphenylhydrazine, 1,2-	1.61	U	33.1	1.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobenzene	1.51	U	33.1	1.51	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Atrazine	4.99	U	33.1	4.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorophenol	3.98	U	166	3.98	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Phenanthrene	4.92	U	33.1	4.92	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Anthracene	1.27	U	33.1	1.27	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibutylphthalate	2.58	U	66.3	2.58	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluoranthene	3.09	U	33.1	3.09	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzidine	8.97	U	328	8.97	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pyrene	1.82	U	33.1	1.82	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dichlorobenzidine, 3,3'-	10.1	U	33.1	10.1	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]anthracene	1.37	U	33.1	1.37	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Di (2-ethylhexyl)phthalate	5.34	U	33.1	5.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Chrysene	1.01	U	33.1	1.01	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[b]fluoranthene	1.71	U	33.1	1.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[k]fluoranthene	1.48	U	33.1	1.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]pyrene	1.60	U	33.1	1.60	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Indeno[1,2,3-cd]pyrene	3.48	U	33.1	3.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibenz(a,h)anthracene	3.61	U	33.1	3.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[g,h,i]perylene	5.04	U	33.1	5.04	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209489-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-300979/1-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	8.79	U	33.1	8.79	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Thiophene, tetrahydro-, 1,1-dioxide	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		10 - 148	08/12/20 09:49	08/17/20 08:25	1
2-Fluorobiphenyl	90		38 - 130	08/12/20 09:49	08/17/20 08:25	1
2-Fluorophenol	84		25 - 132	08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene-d5	89		10 - 155	08/12/20 09:49	08/17/20 08:25	1
Terphenyl-d14	113		53 - 134	08/12/20 09:49	08/17/20 08:25	1
Phenol-d5 (Surr)	84		27 - 130	08/12/20 09:49	08/17/20 08:25	1

Lab Sample ID: LCS 600-300979/24-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	663	603.2		ug/Kg		91	50 - 150
N-Nitrosopyrrolidine	663	640.3		ug/Kg		97	50 - 150
N-Nitrosodi-n-butylamine	663	504.6		ug/Kg		76	50 - 150
Pentachlorobenzene	663	570.9		ug/Kg		86	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	99		10 - 148
2-Fluorobiphenyl	95		38 - 130
2-Fluorophenol	87		25 - 132
Nitrobenzene-d5	91		10 - 155
Terphenyl-d14	116		53 - 134
Phenol-d5 (Surr)	89		27 - 130

Lab Sample ID: LCS 600-300979/25-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thiophene, tetrahydro-, 1,1-dioxide	1330	1839	E	ug/Kg		138	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	56		10 - 148
2-Fluorobiphenyl	85		38 - 130
2-Fluorophenol	73		25 - 132
Nitrobenzene-d5	84		10 - 155
Terphenyl-d14	109		53 - 134
Phenol-d5 (Surr)	79		27 - 130

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209489-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	663	620.7		ug/Kg		94	29 - 130
Bis(2-chloroethyl)ether	663	632.1		ug/Kg		95	40 - 130
Hexachloroethane	663	616.4		ug/Kg		93	37 - 130
Nitrobenzene	663	664.3		ug/Kg		100	42 - 130
Isophorone	663	669.6		ug/Kg		101	39 - 130
2,4-Dichlorophenol	663	685.5		ug/Kg		103	38 - 130
Naphthalene	663	645.1		ug/Kg		97	40 - 130
Hexachlorobutadiene	663	643.5		ug/Kg		97	36 - 130
2-Methylnaphthalene	663	669.4		ug/Kg		101	43 - 130
1-Methylnaphthalene	663	645.4		ug/Kg		97	43 - 130
1,2,4,5-Tetrachlorobenzene	663	672.6		ug/Kg		101	37 - 130
Hexachlorocyclopentadiene	663	594.1		ug/Kg		90	10 - 130
2,4,6-Trichlorophenol	663	691.8		ug/Kg		104	39 - 130
2,4,5-Trichlorophenol	663	714.3		ug/Kg		108	41 - 130
Dimethyl phthalate	663	732.0		ug/Kg		110	40 - 130
Acenaphthylene	663	717.5		ug/Kg		108	39 - 130
2,6-Dinitrotoluene	663	718.6		ug/Kg		108	44 - 130
Acenaphthene	663	691.9		ug/Kg		104	42 - 130
Dinitrophenols	1330	1084		ug/Kg		82	15 - 130
2,4-Dinitrotoluene	663	719.1		ug/Kg		109	45 - 130
Diethyl phthalate	663	753.6		ug/Kg		114	50 - 130
Fluorene	663	722.7		ug/Kg		109	46 - 130
Dinitro-o-cresol	1330	1237		ug/Kg		93	38 - 130
N-Nitrosodiphenylamine	663	778.1		ug/Kg		117	48 - 130
Diphenylhydrazine, 1,2-	663	789.2		ug/Kg		119	50 - 130
Hexachlorobenzene	663	733.7		ug/Kg		111	44 - 130
Atrazine	663	523.8		ug/Kg		79	10 - 140
Pentachlorophenol	1330	1166		ug/Kg		88	40 - 130
Phenanthrene	663	759.4		ug/Kg		115	51 - 130
Anthracene	663	775.6		ug/Kg		117	51 - 130
Dibutylphthalate	663	860.8		ug/Kg		130	51 - 135
Fluoranthene	663	763.4		ug/Kg		115	53 - 130
Benzidine	3310	861.3		ug/Kg		26	10 - 130
Pyrene	663	785.6		ug/Kg		119	53 - 130
Dichlorobenzidine, 3,3'-	663	456.2		ug/Kg		69	13 - 146
Benzo[a]anthracene	663	760.5		ug/Kg		115	54 - 130
Di (2-ethylhexyl)phthalate	663	842.8		ug/Kg		127	41 - 145
Chrysene	663	776.4		ug/Kg		117	52 - 130
Benzo[b]fluoranthene	663	733.1		ug/Kg		111	41 - 139
Benzo[k]fluoranthene	663	726.2		ug/Kg		110	42 - 134
Benzo[a]pyrene	663	719.7		ug/Kg		109	44 - 131
Indeno[1,2,3-cd]pyrene	663	738.7		ug/Kg		111	35 - 146
Dibenz(a,h)anthracene	663	775.0		ug/Kg		117	40 - 137
Benzo[g,h,i]perylene	663	778.5		ug/Kg		117	38 - 142
bis (2-chloroisopropyl) ether	663	638.6		ug/Kg		96	38 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	100		10 - 148

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209489-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	98		38 - 130
2-Fluorophenol	91		25 - 132
Nitrobenzene-d5	95		10 - 155
Terphenyl-d14	112		53 - 134
Phenol-d5 (Surr)	93		27 - 130

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-500724/1-A

Matrix: Solid

Analysis Batch: 501018

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 500724

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	Result	Qualifier					08/18/20 13:25	08/20/20 15:59	1
	12.0	U	66.0	12.0	ug/Kg				
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	%Recovery	Qualifier					08/18/20 13:25	08/20/20 15:59	1
	75		30 - 164						

Lab Sample ID: LCS 400-500724/2-A

Matrix: Solid

Analysis Batch: 501018

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 500724

Analyte		Spike	LCS	LCS	Unit	D	%Rec	%Rec.
Prometon		Added	Result	Qualifier			76	Limits
		333	252.5		ug/Kg			40 - 140
Surrogate	LCS	LCS	Limits					
Triphenylphosphate	%Recovery	Qualifier						
	87		30 - 164					

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

Lab Sample ID: MB 600-300806/1-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300806

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	Result	Qualifier					08/10/20 15:56	08/13/20 11:51	1
C28-C36	1.70	U	4.97	1.70	mg/Kg				
	4.97	U	4.97	4.97	mg/Kg		08/10/20 15:56	08/13/20 11:51	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	%Recovery	Qualifier					08/10/20 15:56	08/13/20 11:51	1
	125		60 - 140						

Lab Sample ID: LCS 600-300806/2-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300806

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
Diesel Range Organics [C10-C28]	Added	Result	Qualifier			106	Limits
	66.6	70.64		mg/Kg			66 - 134

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209489-1

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

Lab Sample ID: LCS 600-300806/2-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300806

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	131		60 - 140

Lab Sample ID: LCSD 600-300806/3-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300806

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	66.6	75.11		mg/Kg		113	66 - 134	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	131		60 - 140

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 600-300862/1-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.30	U	1.69	1.30	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, beta-	1.02	U	1.69	1.02	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, delta-	0.847	U	1.69	0.847	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, alpha-	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, gamma-	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Chlordane (technical)	23.3	U	74.7	23.3	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
DDT	1.84	U	3.29	1.84	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Dieldrin	1.38	U	3.29	1.38	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan I	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan II	1.50	U	3.29	1.50	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan sulfate	1.67	U	3.29	1.67	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin	1.52	U	3.29	1.52	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin aldehyde	1.55	U	3.29	1.55	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor epoxide	1.17	U	1.69	1.17	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Toxaphene	72.8	U	169	72.8	ug/Kg		08/11/20 08:51	08/11/20 19:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	127		47 - 150	08/11/20 08:51	08/11/20 19:37	1
Tetrachloro-m-xylene	116		50 - 143	08/11/20 08:51	08/11/20 19:37	1

Lab Sample ID: LCS 600-300862/2-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.6	18.06		ug/Kg		109	42 - 150
Hexachlorocyclohexane, beta-	16.6	18.03		ug/Kg		108	32 - 150

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209489-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 600-300862/2-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorocyclohexane, delta-	16.6	20.49		ug/Kg		123	33 - 150
Hexachlorocyclohexane, alpha-	16.6	18.14		ug/Kg		109	63 - 130
Hexachlorocyclohexane, gamma-	16.6	18.30		ug/Kg		110	36 - 150
DDT	16.6	22.31		ug/Kg		134	46 - 150
Dieldrin	16.6	18.72		ug/Kg		113	42 - 150
Endosulfan I	16.6	13.84		ug/Kg		83	37 - 150
Endosulfan II	16.6	18.94		ug/Kg		114	43 - 150
Endosulfan sulfate	16.6	20.02		ug/Kg		120	32 - 150
Endrin	16.6	20.38		ug/Kg		123	41 - 150
Endrin aldehyde	16.6	22.48		ug/Kg		135	42 - 150
Heptachlor	16.6	18.17		ug/Kg		109	35 - 150
Heptachlor epoxide	16.6	17.12		ug/Kg		103	42 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	76		47 - 150
Tetrachloro-m-xylene	74		50 - 143

Lab Sample ID: LCSD 600-300862/3-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	16.6	17.36		ug/Kg		104	42 - 150	4	20
Hexachlorocyclohexane, beta-	16.6	18.09		ug/Kg		109	32 - 150	0	20
Hexachlorocyclohexane, delta-	16.6	20.47		ug/Kg		123	33 - 150	0	20
Hexachlorocyclohexane, alpha-	16.6	16.93		ug/Kg		102	63 - 130	7	20
Hexachlorocyclohexane, gamma-	16.6	17.29		ug/Kg		104	36 - 150	6	20
DDT	16.6	22.58		ug/Kg		136	46 - 150	1	20
Dieldrin	16.6	18.96		ug/Kg		114	42 - 150	1	20
Endosulfan I	16.6	14.22		ug/Kg		86	37 - 150	3	20
Endosulfan II	16.6	18.23		ug/Kg		110	43 - 150	4	20
Endosulfan sulfate	16.6	20.67		ug/Kg		124	32 - 150	3	20
Endrin	16.6	21.64		ug/Kg		130	41 - 150	6	20
Endrin aldehyde	16.6	23.30		ug/Kg		140	42 - 150	4	20
Heptachlor	16.6	16.75		ug/Kg		101	35 - 150	8	20
Heptachlor epoxide	16.6	16.99		ug/Kg		102	42 - 150	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	104		47 - 150
Tetrachloro-m-xylene	89		50 - 143

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209489-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/11/20 11:50	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/11/20 11:50	1

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/12/20 02:57	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/12/20 02:57	1

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	98.87		mg/Kg		99	90 - 110
Nitrite as N	100	101.4		mg/Kg		101	90 - 110

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	91.93		mg/Kg		92	90 - 110
Nitrite as N	100	100.5		mg/Kg		100	90 - 110

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			08/11/20 11:50	1
Fluoride	0.601	U	2.00	0.601	mg/Kg			08/11/20 11:50	1
Sulfate	0.957	U	5.00	0.957	mg/Kg			08/11/20 11:50	1

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	193.0		mg/Kg		97	90 - 110
Fluoride	75.0	82.00		mg/Kg		109	90 - 110
Sulfate	200	193.9		mg/Kg		97	90 - 110

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209489-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-505436/1-A

Matrix: Solid

Analysis Batch: 505596

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505436

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		08/12/20 15:04	08/13/20 16:41	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		08/12/20 15:04	08/13/20 16:41	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		08/12/20 15:04	08/13/20 16:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	102		83 - 122	08/12/20 15:04	08/13/20 16:41	1

Lab Sample ID: LCS 280-505436/2-A

Matrix: Solid

Analysis Batch: 505596

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505436

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	1.051		mg/Kg		105	80 - 124
2,4,6-Trinitrotoluene	1.00	1.050		mg/Kg		105	80 - 120

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

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: MB 280-505376/1-A

Matrix: Solid

Analysis Batch: 506026

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		08/12/20 11:00	08/20/20 14:31	1

Lab Sample ID: LCS 280-505376/2-A

Matrix: Solid

Analysis Batch: 506026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5330		ug/Kg		107	80 - 120

Lab Sample ID: DLCK 280-506024/12

Matrix: Solid

Analysis Batch: 506024

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	0.04997	J	ug/L		100	70 - 130

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209489-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-500633/14

Matrix: Solid

Analysis Batch: 500633

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	0.4920	J	ug/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4537	J	ug/L		100	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		92	70 - 130
Surrogate	DLCK %Recovery	DLCK Qualifier	Limits				
13C8 PFOA	108		57 - 153				
13C8 PFOS	91		70 - 130				

Lab Sample ID: MB 280-505864/1-A

Matrix: Solid

Analysis Batch: 506717

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505864

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		08/17/20 14:49	08/24/20 11:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		08/17/20 14:49	08/24/20 11:46	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		08/17/20 14:49	08/24/20 11:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C8 PFOA	104		57 - 153	08/17/20 14:49	08/24/20 11:46	1			
13C8 PFOS	94		70 - 130	08/17/20 14:49	08/24/20 11:46	1			

Lab Sample ID: LCS 280-505864/2-A

Matrix: Solid

Analysis Batch: 506717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	18.81		ug/Kg		94	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	16.81		ug/Kg		92	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	18.69		ug/Kg		101	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
13C8 PFOA	101		57 - 153				
13C8 PFOS	98		70 - 130				

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-481632/1-A ^2

Matrix: Solid

Analysis Batch: 481844

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 481632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0729	U	0.195	0.0729	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Arsenic	0.389	U	0.973	0.389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Barium	0.486	U	1.95	0.486	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Beryllium	0.0389	U	0.0973	0.0389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209489-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 160-481632/1-A ^2

Matrix: Solid

Analysis Batch: 481844

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 481632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0233	U	0.0486	0.0233	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Chromium	0.438	U	0.973	0.438	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Iron	5.84	U	11.7	5.84	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Copper	0.389	U	0.973	0.389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Manganese	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Lead	0.122	U	0.292	0.122	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Antimony	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Selenium	0.311	U	0.486	0.311	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Thallium	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Zinc	1.95	U	4.86	1.95	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Uranium	0.0389	U	0.0973	0.0389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2

Lab Sample ID: LCSSRM 160-481632/3-A ^10

Matrix: Solid

Analysis Batch: 481844

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 481632

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	40.3	37.10		mg/Kg		92.1	69.2 - 130.8
Arsenic	95.5	92.41		mg/Kg		96.8	70.1 - 129.8
Barium	300	273.8		mg/Kg		91.3	75.0 - 125.0
Beryllium	103	99.40		mg/Kg		96.5	75.0 - 125.2
Cadmium	135	134.8		mg/Kg		99.8	125. - 74.82
Chromium	147	137.0		mg/Kg		93.2	70.1 - 129.9
Iron	14400	11610		mg/Kg		80.6	35.8 - 164.6
Copper	150	155.4		mg/Kg		103.6	75.3 - 125.3
Manganese	677	697.6		mg/Kg		103.0	78.1 - 122.0
Lead	92.3	89.28		mg/Kg		96.7	70.0 - 130.0
Antimony	120	60.58		mg/Kg		50.5	19.0 - 251.7
Selenium	42.0	41.47		mg/Kg		98.7	55.7 - 144.5
Thallium	83.1	83.63		mg/Kg		100.6	65.3 - 134.8
Zinc	369	375.6		mg/Kg		101.8	69.9 - 130.1
Uranium	70.1	67.82		mg/Kg		96.8	64.9 - 135.0

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209489-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 600-302704/7-A

Matrix: Solid

Analysis Batch: 302818

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 302704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00341	U	0.0162	0.00341	mg/Kg		09/02/20 13:16	09/03/20 13:22	1

Lab Sample ID: LCS 600-302704/8-A

Matrix: Solid

Analysis Batch: 302818

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 302704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.2549		mg/Kg		110	70 - 130

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: LB 600-301322/1-A

Matrix: Solid

Analysis Batch: 301367

Client Sample ID: Method Blank

Prep Type: 7 Day Leach

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			08/17/20 11:57	1

Lab Sample ID: 600-209489-2 DU

Matrix: Solid

Analysis Batch: 301367

Client Sample ID: CELL20-SQUARE204-S-2-3-200807

Prep Type: 7 Day Leach

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	87.0		91.00		mg/L		4	10

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 600-301738/1-A

Matrix: Solid

Analysis Batch: 301760

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00150	U	0.0100	0.00150	mg/Kg		08/20/20 13:55	08/20/20 17:40	1

Lab Sample ID: LCS 600-301738/2-A

Matrix: Solid

Analysis Batch: 301760

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.1007		mg/Kg		101	90 - 110

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation)

Lab Sample ID: MB 600-301712/1-A

Matrix: Solid

Analysis Batch: 301753

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301712

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.00419	U	0.00500	0.00419	mg/Kg		08/20/20 12:06	08/20/20 16:09	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209489-1

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation) (Continued)

Lab Sample ID: LCS 600-301712/2-A

Matrix: Solid

Analysis Batch: 301753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.100	0.09758		mg/Kg		98	90 - 110

Lab Sample ID: MB 600-301825/1-A

Matrix: Solid

Analysis Batch: 301847

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.00419	U	0.00500	0.00419	mg/Kg		08/21/20 12:16	08/21/20 13:43	1

Lab Sample ID: LCS 600-301825/2-A

Matrix: Solid

Analysis Batch: 301847

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.100	0.09383		mg/Kg		94	90 - 110

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-479639/1-A

Matrix: Solid

Analysis Batch: 481714

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 479639

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05851	U	0.184	0.184	1.00	0.317	pCi/g	08/17/20 17:22	09/08/20 10:45	1
Radium-228	0.1048	U	0.195	0.196		0.306	pCi/g	08/17/20 17:22	09/08/20 10:45	1
Combined Radium 226 + 228	0.1633	U	0.268	0.269		0.317	pCi/g	08/17/20 17:22	09/08/20 10:45	1

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209489-1

GC/MS VOA

Prep Batch: 300996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	5030B	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	5030B	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	5030B	

Analysis Batch: 301050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	8260B	300996
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	8260B	300996
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	8260B	300996
MB 600-301050/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-301050/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-301050/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 300979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	3546	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	3546	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300979/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 301300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-300979/1-A	Method Blank	Total/NA	Solid	8270C LL	300979
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979

Analysis Batch: 301390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	8270C LL	300979
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	8270C LL	300979
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	8270C LL	300979

Prep Batch: 500724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	3546	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	3546	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	3546	
MB 400-500724/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-500724/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 501018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	8270D	500724
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	8270D	500724
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	8270D	500724

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QC Association Summary

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

Job ID: 600-209489-1

GC/MS Semi VOA (Continued)

Analysis Batch: 501018 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-500724/1-A	Method Blank	Total/NA	Solid	8270D	500724
LCS 400-500724/2-A	Lab Control Sample	Total/NA	Solid	8270D	500724

GC VOA

Prep Batch: 300717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	5030B	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	5030B	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	5030B	

Analysis Batch: 301053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	8015B	300717
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	8015B	300717
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	8015B	300717

GC Semi VOA

Prep Batch: 300806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	3546	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	3546	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300806/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 300862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	3546	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	3546	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300862/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 300913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8081A	300862
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	8081A	300862
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	300862

Analysis Batch: 301085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	8015B	300806
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	8015B	300806
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	8015B	300806
MB 600-300806/1-A	Method Blank	Total/NA	Solid	8015B	300806
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	8015B	300806
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300806

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QC Association Summary

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

Job ID: 600-209489-1

GC Semi VOA

Analysis Batch: 301103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	8082	300862
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	8082	300862
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	8082	300862

Analysis Batch: 301106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	8081A	300862
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	8081A	300862

Analysis Batch: 302135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	8081A	300862

HPLC/IC

Analysis Batch: 300880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Soluble	Solid	300.0	300916
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Soluble	Solid	300.0	300916
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

Analysis Batch: 300881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Soluble	Solid	300.0	300916
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Soluble	Solid	300.0	300916
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

Leach Batch: 300916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Soluble	Solid	DI Leach	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Soluble	Solid	DI Leach	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Soluble	Solid	DI Leach	
MB 600-300916/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

ISM Prep Batch: 505294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	Increment, prep	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	Increment, prep	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	Increment, prep	

Prep Batch: 505436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	8330B	505294
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	8330B	505294

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209489-1

HPLC/IC (Continued)

Prep Batch: 505436 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	8330B	505294
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 505596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	8330B	505436
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	8330B	505436
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	8330B	505436
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	505436
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	505436

LCMS

Analysis Batch: 500633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-500633/14	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Prep Batch: 505376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	6860	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	6860	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	6860	
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 505864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	PFC leach	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	PFC leach	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	PFC leach	
MB 280-505864/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 506024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-506024/12	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 506026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	6860	505376
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	6860	505376
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	6860	505376
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	505376
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	505376

Analysis Batch: 506717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864

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QC Association Summary

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

Job ID: 600-209489-1

LCMS (Continued)

Analysis Batch: 506717 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-505864/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	505864
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	505864

Metals

Prep Batch: 302704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	7471B	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	7471B	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	7471B	
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 302818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	7471B	302704
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	7471B	302704
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	7471B	302704
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	302704
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	302704

Prep Batch: 481632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	3050B	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	3050B	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	3050B	
MB 160-481632/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCSSRM 160-481632/3-A ^1	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 481844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	6020	481632
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	6020	481632
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	6020	481632
MB 160-481632/1-A ^2	Method Blank	Total/NA	Solid	6020	481632
LCSSRM 160-481632/3-A ^1	Lab Control Sample	Total/NA	Solid	6020	481632

General Chemistry

Analysis Batch: 300956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	2540B	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	2540B	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	2540B	

Leach Batch: 301322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	7 Day Leach	Solid	335.521	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	7 Day Leach	Solid	335.521	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	7 Day Leach	Solid	335.521	
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	335.521	
600-209489-2 DU	CELL20-SQUARE204-S-2-3-200807	7 Day Leach	Solid	335.521	

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209489-1

General Chemistry

Analysis Batch: 301367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
600-209489-2	CELL20-SQUARE204-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
600-209489-3	CELL20-SQUARE15-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	2540 C-1997	301322
600-209489-2 DU	CELL20-SQUARE204-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322

Prep Batch: 301712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
MB 600-301712/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 600-301712/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Prep Batch: 301738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	9012B	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	9012B	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	9012B	
MB 600-301738/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 600-301738/2-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 301753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	9066	301712
MB 600-301712/1-A	Method Blank	Total/NA	Solid	9066	301712
LCS 600-301712/2-A	Lab Control Sample	Total/NA	Solid	9066	301712

Analysis Batch: 301760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	9012B	301738
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	9012B	301738
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	9012B	301738
MB 600-301738/1-A	Method Blank	Total/NA	Solid	9012B	301738
LCS 600-301738/2-A	Lab Control Sample	Total/NA	Solid	9012B	301738

Prep Batch: 301825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
MB 600-301825/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 600-301825/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 301847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	9066	301825
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	9066	301825
MB 600-301825/1-A	Method Blank	Total/NA	Solid	9066	301825
LCS 600-301825/2-A	Lab Control Sample	Total/NA	Solid	9066	301825

Analysis Batch: 302075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	9045D	

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209489-1

General Chemistry (Continued)

Analysis Batch: 302075 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	9045D	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	9045D	
LCS 600-302075/1	Lab Control Sample	Total/NA	Solid	9045D	

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Leach Batch: 479217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	Dry and Grind	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	Dry and Grind	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	Dry and Grind	

Prep Batch: 479639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479217
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479217
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479217
MB 160-479639/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE79-S-2-3-200807

Lab Sample ID: 600-209489-1

Date Collected: 08/07/20 11:35

Matrix: Solid

Date Received: 08/08/20 10:05

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					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.83 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 23:12	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.01 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			309 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481706	09/08/20 15:04	SCB	TAL SL

Client Sample ID: CELL20-SQUARE79-S-2-3-200807

Lab Sample ID: 600-209489-1

Date Collected: 08/07/20 11:35

Matrix: Solid

Date Received: 08/08/20 10:05

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	5030B			5.36 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 13:58	WS1	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301390	08/17/20 19:14	RP	TAL HOU
Total/NA	Prep	3546			15.46 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 19:44	PP1	TAL PEN
Total/NA	Prep	5030B			10.66 g	10 mL	300717	08/08/20 15:03	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 13:17	WS1	TAL HOU
Total/NA	Prep	3546			10.02 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 20:52	RJV	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			301106	08/13/20 12:58	JAL	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			301103	08/13/20 13:21	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 23:32	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 23:32	W1N	TAL HOU
Total/NA	Prep	6860			10.33 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 15:59	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.34 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 14:15	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5548 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 19:48	DAS	TAL SL
Total/NA	Prep	7471B			0.65 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 14:05	DCL	TAL HOU
Total/NA	Prep	9012B			0.527 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:46	AML	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE79-S-2-3-200807

Lab Sample ID: 600-209489-1

Date Collected: 08/07/20 11:35

Matrix: Solid

Date Received: 08/08/20 10:05

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	Distill/Phenol			0.506 g	50.0 mL	301712	08/20/20 12:06	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301753	08/20/20 16:01	AML	TAL HOU

Client Sample ID: CELL20-SQUARE204-S-2-3-200807

Lab Sample ID: 600-209489-2

Date Collected: 08/07/20 12:13

Matrix: Solid

Date Received: 08/08/20 10:05

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					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.36 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 23:35	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.11 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			389.8 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481722	09/08/20 12:56	SCB	TAL SL

Client Sample ID: CELL20-SQUARE204-S-2-3-200807

Lab Sample ID: 600-209489-2

Date Collected: 08/07/20 12:13

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.58 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 14:22	WS1	TAL HOU
Total/NA	Prep	3546			15.09 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301390	08/17/20 19:39	RP	TAL HOU
Total/NA	Prep	3546			15.12 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 20:09	PP1	TAL PEN
Total/NA	Prep	5030B			9.35 g	10 mL	300717	08/08/20 15:03	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 13:42	WS1	TAL HOU
Total/NA	Prep	3546			10.04 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 21:25	RJV	TAL HOU
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 09:01	SMB	TAL HOU
Total/NA	Analysis	8081A		1			302135	08/26/20 12:07	JAL	TAL HOU
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 09:01	SMB	TAL HOU
Total/NA	Analysis	8082		1			301103	08/13/20 13:47	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 23:53	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 23:53	W1N	TAL HOU
Total/NA	Prep	6860			10.79 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 16:04	TMC	TAL DEN

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE204-S-2-3-200807

Lab Sample ID: 600-209489-2

Date Collected: 08/07/20 12:13

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFC leach			10.175 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 14:24	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5034 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 19:51	DAS	TAL SL
Total/NA	Prep	7471B			0.65 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 14:07	DCL	TAL HOU
Total/NA	Prep	9012B			0.512 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:49	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.505 g	50.0 mL	301825	08/21/20 12:16	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301847	08/21/20 13:49	AML	TAL HOU

Client Sample ID: CELL20-SQUARE15-S-2-3-200807

Lab Sample ID: 600-209489-3

Date Collected: 08/07/20 12:59

Matrix: Solid

Date Received: 08/08/20 10:05

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					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.12 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 23:58	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.19 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			410.7 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481717	09/08/20 13:55	SCB	TAL SL

Client Sample ID: CELL20-SQUARE15-S-2-3-200807

Lab Sample ID: 600-209489-3

Date Collected: 08/07/20 12:59

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.24 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 14:46	WS1	TAL HOU
Total/NA	Prep	3546			15.09 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301390	08/17/20 20:03	RP	TAL HOU
Total/NA	Prep	3546			15.20 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 20:34	PP1	TAL PEN
Total/NA	Prep	5030B			10.07 g	10 mL	300717	08/08/20 15:03	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 14:07	WS1	TAL HOU
Total/NA	Prep	3546			10.09 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 21:59	RJV	TAL HOU
Total/NA	Prep	3546			15.04 g	5.0 mL	300862	08/11/20 09:01	SMB	TAL HOU
Total/NA	Analysis	8081A		1			301106	08/13/20 13:47	JAL	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE15-S-2-3-200807

Lab Sample ID: 600-209489-3

Date Collected: 08/07/20 12:59

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.04 g	5.0 mL	300862	08/11/20 09:01	SMB	TAL HOU
Total/NA	Analysis	8082		1			301103	08/13/20 14:12	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/12/20 00:54	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/12/20 00:54	W1N	TAL HOU
Total/NA	Prep	6860			10.46 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 16:24	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.199 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 14:33	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5898 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 19:55	DAS	TAL SL
Total/NA	Prep	7471B			0.64 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 14:14	DCL	TAL HOU
Total/NA	Prep	9012B			0.508 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:49	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.502 g	50.0 mL	301825	08/21/20 12:16	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301847	08/21/20 13:50	AML	TAL HOU

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

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

Job ID: 600-209489-1

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-20-26	10-31-20
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
2540 C-1997		Solid	Total Dissolved Solids
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	C28-C36
8260B	5030B	Solid	1,3-Dichloropropene, Total
8270C LL	3546	Solid	1-Methylnaphthalene
8270C LL	3546	Solid	Atrazine
8270C LL	3546	Solid	Thiophene, tetrahydro-, 1,1-dioxide
9045D		Solid	pH

Laboratory: Eurofins TestAmerica, Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-21
Alaska (UST)	State	18-001	02-08-21
Arizona	State	AZ0713	12-20-20
Arkansas DEQ	State	19-047-0	06-01-21
California	State	2513	01-08-21
Connecticut	State	PH-0686	09-30-20
Florida	NELAP	E87667-57	07-01-21
Georgia	State	4025-011	01-09-21
Illinois	NELAP	2000172019-1	04-30-21
Iowa	State	IA#370	12-01-20
Kansas	NELAP	E-10166	04-30-21
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-21
Maine	State	2019011 (231)	03-03-21
Minnesota	NELAP	1788752	12-31-20
Nevada	State	CO000262020-1	07-31-21
New Hampshire	NELAP	205319	04-29-21
New Jersey	NELAP	190002	06-30-21
New York	NELAP	59923	04-01-21
North Carolina (WW/SW)	State	358	12-31-20
North Dakota	State	R-034	01-08-21
Oklahoma	State	2018-006	08-31-20
Oregon	NELAP	4025-011	01-08-21
Pennsylvania	NELAP	013	07-31-21
South Carolina	State	72002001	01-08-21
Texas	NELAP	T104704183-19-17	09-30-20
US Fish & Wildlife	US Federal Programs	058448	08-01-21
USDA	US Federal Programs	P330-18-00099	03-26-21
Utah	NELAP	QUAN5	06-30-13 *

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

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

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

Job ID: 600-209489-1

Laboratory: Eurofins TestAmerica, Denver (Continued)

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

Authority	Program	Identification Number	Expiration Date
Utah	NELAP	CO000262019-11	07-31-21
Virginia	NELAP	10490	06-14-21
Washington	State	C583-19	08-03-21
West Virginia DEP	State	354	11-30-20
Wisconsin	State	999615430	08-31-20
Wyoming (UST)	A2LA	2907.01	10-31-21

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-21
Kansas	NELAP	E-10253	10-31-20
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	09-30-20

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209489-1

Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, 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	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	09-13-20
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	09-14-20
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-20

Eurofins TestAmerica, Houston

Chain of Custody Record



Client Information Client Contact: Allison Schaffer Company: ARCADIS U.S., Inc. Address: 6330 Plaza Drive Suite 100 City: Highlands Ranch State Zip: CO, 80129-2377 Phone: 303-710-7537(Tel) Email: Allison.Schaffer@arcadis.com Project Name: Chevron - Jal Land Farm Soils Site: Landfarm		Analysis Requested Due Date Requested: Std TAT Requested (days): Std PO #: WO #: Project #: 60012538 SSOW#:		Carrier Tracking Info Lab PM: J. Steinmann E-Mail: Sachin.Kudchadkar@Eurofinset.com Phone: 619 851 8792 Carrier Tracking No(s): 600-78203-21039.1 Page: 1 of 1 Job #:	
Sample Identification Cell 20 - Square 19 - S-2-3-200807 Cell 20 - Square 204 - S-2-3-200807 Cell 20 - Square 155 - S-2-3-200807 Temp blank		Sample Date 8/07/20 8/07/20 8/07/20		Sample Time 1135 1213 1259	
Sample Type G G G		Matrix Solid Solid Solid		Preservation Code G G G	
Field Filtered Sample (Yes or No) Yes ☒ No ☐					
Perform MS/MSD (Yes or No) Yes ☒ No ☐					
8260B - Volatiles Yes ☒ No ☐					
8270C - Semivolatiles/ 8081 Pesticides/ 8082 PCB Yes ☒ No ☐					
8330B - Denver - soil jar 4 oz Yes ☒ No ☐					
PFC - Denver - plastic 16 oz jar Yes ☒ No ☐					
8270D AgChem - Pensacola - soil jar 4 oz Yes ☒ No ☐					
2540C - Caled - Local Method/ Moisture/ pH 9045 Yes ☒ No ☐					
8015B - GRO Yes ☒ No ☐					
8015 - DRO/ORO Yes ☒ No ☐					
GA-01 - Ra - Rad 226/228 - St Louis - 2 plastic jars 16 Yes ☒ No ☐					
9066 - Phenolics/ 9012 Cyanide Yes ☒ No ☐					
300 - Nitrate, Chloride, Sulfate/ Fluoride Yes ☒ No ☐					
6020/7471 - St Louis - soil jar 4 oz Yes ☒ No ☐					
Total Number of Containers 11					
Special Instructions/Note: 600-209489 Chain of Custody					
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 - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by
 Relinquished by: *[Signature]* Date: 8/07/20
 Relinquished by: *[Signature]* Date: 8/07/20
 Relinquished by: *[Signature]* Date: 8/07/20

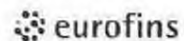
Custody Seal No.
 A Yes A No

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:

Received by *[Signature]* **Date/Time** 8/8/20 1005 **Company** CTA
Received by *[Signature]* **Date/Time** **Company**
Received by *[Signature]* **Date/Time** **Company**

Method of Shipment
 Cooler Temperature(s) °C and Other Remarks:

Eurofins TestAmerica Houston

Loc: 600
209489Environment Testing
TestAmerica

Sample Receipt Checklist

23 AUG 8 10:05

JOB NUMBER: _____

Date/Time Received: _____

UNPACKED BY: JRCLIENT: ArcadisCARRIER/DRIVER: FedexCustody Seal Present: ☒ YES ☐ NONumber of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
5173	Y / N	Y / N	3.4	680	+0.1	3.5
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☐ YES ☐ NOLABORATORY PRESERVATION OF SAMPLES REQUIRED: ☒ NO ☐ YESBase samples are >pH 12: ☐ YES ☐ NOAcid preserved are <pH 2: ☐ YES ☐ NOTX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot # _____

VOA headspace acceptable (5-6mm): ☐ YES ☐ NO ☒ NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

☒ YES ☐ NO

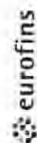
COMMENTS:

8/8/20

Eurofins TestAmerica, Houston

6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM:	Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No:	600-45922.1
Client Contact:		Phone:	E-Mail:	Sachin.Kudchadkar@Eurofinset.com	State of Origin:	Page:	Page 1 of 1
Shipping/Receiving		Accreditations Required (See note):					
Company:		NELAP - Texas					
Address:		Job #:					
13715 Rider Trail North,		600-209489-1					
City:		Analysis Requested:					
Earth City		A - HCL					
State, Zip:		B - NaOH					
MO, 63045		C - Zn Acetate					
Phone:		D - Nitric Acid					
314-298-8566(Tel) 314-298-8757(Fax)		E - NaHSO4					
Email:		F - MeOH					
		G - Amchlor					
		H - Ascorbic Acid					
		I - Ice					
		J - DI Water					
		K - EDTA					
		L - EDA					
		Other:					
		M - Hexane					
		N - Nona					
		O - AsNaO2					
		P - Na2O4S					
		Q - Na2SO3					
		R - Na2S2O3					
		S - H2SO4					
		T - TSP Dodecahydrate					
		U - Acetone					
		V - MCAA					
		W - pH 4.5					
		Z - other (specify)					
Project Name:		Preservation Codes:					
Chevron - Jal Land Farm Soils		A - HCL					
Site:		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:					
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		Q - Na2SO3					
		R - Na2S2O3					
		S - H2SO4					
		T - TSP Dodecahydrate					
		U - Acetone					
		V - MCAA					
		W - pH 4.5					
		Z - other (specify)					
		Other:					
		M - Hexane					
		N - Nona					
		O - AsNaO2					
		P - Na2O4S					
		Q - Na2SO3					
		R - Na2S2O3					
		S - H2SO4					
		T - TSP Dodecahydrate					
		U - Acetone					
		V - MCAA					
		W - pH 4.5					
		Z - other (specify)					
		Other:					
		M - Hexane					
		N - Nona					
		O - AsNaO2					
		P - Na2O4S					
		Q - Na2SO3					
		R - Na2S2O3					
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		U - Acetone					
		V - MCAA					
		W - pH 4.5					
		Z - other (specify)					
		Other:					
		M - Hexane					
		N - Nona					
		O - AsNaO2					
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		R - Na2S2O3					
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		U - Acetone					
		V - MCAA					
		W - pH 4.5					
		Z - other (specify)					
		Other:					
		M - Hexane					
		N - Nona					
		O - AsNaO2					
		P - Na2O4S					
		Q - Na2SO3					
		R - Na2S2O3					
		S - H2SO4					
		T - TSP Dodecahydrate					
		U - Acetone					
		V - MCAA					
		W - pH 4.5					
		Z - other (specify)					
		Other:					
		M - Hexane					
		N - Nona					
		O - AsNaO2					
		P - Na2O4S					
		Q - Na2SO3					
		R - Na2S2O3					
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		Z - other (specify)					
		Other:					
		M - Hexane					
		N - Nona					
		O - AsNaO2					
		P - Na2O4S					
		Q - Na2SO3					
		R - Na2S2O3					
		S - H2SO4					
		T - TSP Dodecahydrate					
		U - Acetone					
		V - MCAA					
		W - pH 4.5					
		Z - other (specify)					
		Other:					
		M - Hexane					
		N - Nona					
		O - AsNaO2					
		P - Na2O4S					

Chain of Custody Record

 eurofins

Environment Testing
America

[illegible]

Chain of Custody Record



Environment Testing,
America

[illegible]

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-209489-1

Login Number: 209489

List Source: Eurofins TestAmerica, Houston

List Number: 1

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	3.5
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.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-209489-1

Login Number: 209489

List Number: 3

Creator: Schade, Daniel B

List Source: Eurofins TestAmerica, Denver

List Creation: 08/11/20 02:31 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.	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").	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: 600-209489-1

Login Number: 209489

List Number: 4

Creator: Whitley, Adrian

List Source: Eurofins TestAmerica, Pensacola

List Creation: 08/12/20 05:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1075430
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.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	6.5°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: 600-209489-1

Login Number: 209489

List Number: 2

Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/11/20 01:13 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	



Environment Testing
America

ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-209490-1

Client Project/Site: Chevron - Jal Land Farm Soils

For:

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

Attn: Alison Schaffer

Authorized for release by:
9/21/2020 4:35:19 PM

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

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-209490-1

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Case Narrative

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

Job ID: 600-209490-1

Job ID: 600-209490-1**Laboratory: Eurofins TestAmerica, Houston****Narrative****Job Narrative
600-209490-1****Comments**

No additional comments.

Receipt

The samples were received on 8/8/2020 10:05 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.6° C.

GC/MS VOA

Method 8260B: The method blank for analytical batch 600-301050 contained Chloroform 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.

GC/MS Semi VOA

Method 8270D: Surrogate recovery for the following sample was outside control limits: CELL19-SQUARE27-S-2-3-200807 (600-209490-2). Re-extraction and/or re-analysis was performed outside of holding time with acceptable results. Bot sets of data have been reported.

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301300 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301300/3).

Method 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 600-300979 and analytical batch 600-301300 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

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

GC VOA

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

GC Semi VOA

Methods 8081A, 8081B: The continuing calibration verification (CCV) associated with batch 600-300913 recovered above the upper control limit for 4,4-DDD(25.2%), 4,4-DDE(21.2%), and 4,4-DDT(17.7%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 600-300913/5).

Method 8081A: Surrogate recovery for the following sample was outside control limits: CELL19-SQUARE43-S-2-3-200807 (600-209490-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082: The surrogate recovery for the blank associated with preparation batch 600-300862 and analytical batch 600-300977 was outside the upper control limits.

Method 8082: Surrogate recovery for the following sample was outside control limits: CELL19-SQUARE43-S-2-3-200807 (600-209490-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

RAD

Methods 901.1, GA-01-R: Gamma Prep Batch 160-479639

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:

Case Narrative

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

Job ID: 600-209490-1

Job ID: 600-209490-1 (Continued)**Laboratory: Eurofins TestAmerica, Houston (Continued)**

Inferred from	Reported to Analyte
Th-234	Pa-234
Th-234	U-238
Pb-210	Po-210
Pb-210	Bi-210
Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

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.

CELL19-SQUARE99-S-2-3-200807 (600-209490-1), CELL19-SQUARE27-S-2-3-200807 (600-209490-2),
CELL19-SQUARE43-S-2-3-200807 (600-209490-3), (600-209486-E-1-B) and (600-209486-E-1-C DU)

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

Metals

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-481632 and analytical batch 160-481844 were outside control limits for Antimony. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (600-209488-G-1-B MS ^20) and (600-209488-G-1-C MSD ^20)

Method 6020: Due to the high concentration of Barium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-481632 and analytical batch 160-481844 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (600-209488-G-1-B MS ^20) and (600-209488-G-1-C MSD ^20)

Method 6020: preparation batch 160-481632 and analytical batch 160-481844

The post digestion spike % recovery for Barium was outside of control limits due to high concentrations of target analytes in the native sample (600-209488-G-1-A PDS ^20)

Method 6020: preparation batch 160-481632 and analytical batch 160-481844

The following samples were diluted due to the abundance of non-target analytes: CELL19-SQUARE99-S-2-3-200807 (600-209490-1), CELL19-SQUARE27-S-2-3-200807 (600-209490-2) and CELL19-SQUARE43-S-2-3-200807 (600-209490-3). Elevated reporting limits (RLs) are provided.

Method 6020: analytical batch 160-481844

The internal standard Li-6 was outside QC limits in the CCV. All analytes were within acceptable limits, showing that there was no bias. Original results will be reported. (CCV 160-481844/40)

Case Narrative

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

Job ID: 600-209490-1

Job ID: 600-209490-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

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

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

Industrial Hygiene

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

Organic Prep

Methods Increment, prep: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client/PM request, the subsampling procedure was not performed on these samples.

CELL19-SQUARE99-S-2-3-200807 (600-209490-1), CELL19-SQUARE27-S-2-3-200807 (600-209490-2) and
CELL19-SQUARE43-S-2-3-200807 (600-209490-3)

In preparation batch 280-505294 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: CELL19-SQUARE99-S-2-3-200807 (600-209490-1), CELL19-SQUARE27-S-2-3-200807 (600-209490-2) and CELL19-SQUARE43-S-2-3-200807 (600-209490-3). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet.

In preparation batch 280-505294 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B

Method PFC leach: The following samples were full of rocks and gravel. Aliquoting 10g of soil material was difficult.

CELL19-SQUARE99-S-2-3-200807 (600-209490-1), CELL19-SQUARE27-S-2-3-200807 (600-209490-2) and
CELL19-SQUARE43-S-2-3-200807 (600-209490-3)

preparation batch 280-505864

PFC_Leach / PFC

Method PFC leach: The following samples required 2mL of 2.4M HCl to bring the pH below 7. CELL19-SQUARE99-S-2-3-200807 (600-209490-1) and CELL19-SQUARE27-S-2-3-200807 (600-209490-2)

preparation batch 280-505864

PFC_Leach / PFC

Method PFC leach: The following samples required 3mL of 2.4M HCl to bring the pH below 7. CELL19-SQUARE43-S-2-3-200807 (600-209490-3)

preparation batch 280-505864

PFC_Leach / PFC

Method 3546: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: CELL19-SQUARE99-S-2-3-200807 (600-209490-1), CELL19-SQUARE27-S-2-3-200807 (600-209490-2) and

Case Narrative

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

Job ID: 600-209490-1

Job ID: 600-209490-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

CELL19-SQUARE43-S-2-3-200807 (600-209490-3). The reporting limits (RLs) have been adjusted proportionately.

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

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Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209490-1

Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
8270D	Pesticides by GC/MS	SW846	TAL PEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
8081A	Organochlorine Pesticides (GC)	SW846	TAL HOU
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL HOU
2540 C-1997	Total Dissolved Solids (Dried at 180 °C)	SM	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
9012B	Cyanide, Total and/or Amenable	SW846	TAL HOU
9045D	pH	SW846	TAL HOU
9066	Phenolics (Colorimetric, 4-AAP with Distillation)	SW846	TAL HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
3050B	Preparation, Metals	SW846	TAL SL
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
3546	Microwave Extraction	SW846	TAL PEN
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471B	Mercury in Solid or Semi-Solid Waste (Manual Cold Vapor Technique)/Preparation	SW846	TAL HOU
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU
Distill/Phenol	Distillation, Phenolics	None	TAL HOU
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"

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

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.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Houston

Sample Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209490-1

Project/Site: Chevron - Jal Land Farm Soils

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Solid	08/07/20 09:40	08/08/20 10:05	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Solid	08/07/20 10:26	08/08/20 10:05	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Solid	08/07/20 10:58	08/08/20 10:05	

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE99-S-2-3-200807

Lab Sample ID: 600-209490-1

Date Collected: 08/07/20 09:40

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.00	U	12.1	2.00	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Vinyl chloride	1.08	U	12.1	1.08	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Bromomethane	1.00	U	12.1	1.00	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Trichlorofluoromethane	0.795	U	12.1	0.795	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Acrolein	7.51	U	30.1	7.51	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
1,1-Dichloroethene	1.47	U	6.03	1.47	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
trans-1,2-Dichloroethene	1.37	U	6.03	1.37	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Methyl tert-butyl ether	2.21	U	6.03	2.21	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Methylene Chloride	2.64	U	12.1	2.64	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Acrylonitrile	7.01	U	60.3	7.01	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
cis-1,2-Dichloroethene	1.00	U	6.03	1.00	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Carbon tetrachloride	1.36	U	6.03	1.36	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Benzene	0.759	U	6.03	0.759	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
1,2-Dichloroethane	1.08	U	6.03	1.08	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Trichloroethene	1.69	U	6.03	1.69	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
1,1,1-Trichloroethane	0.892	U	6.03	0.892	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
1,1-Dichloroethane	1.05	U	6.03	1.05	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
1,2-Dichloropropane	0.856	U	6.03	0.856	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
1,4-Dioxane	74.8	U	603	74.8	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Chloroform	2.31	J b	12.1	0.795	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Bromodichloromethane	0.795	U	6.03	0.795	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
1,1-Dichloropropene	0.783	U	6.03	0.783	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
cis-1,3-Dichloropropene	0.651	U	6.03	0.651	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Toluene	1.66	U	6.03	1.66	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
trans-1,3-Dichloropropene	0.699	U	6.03	0.699	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
1,1,2-Trichloroethane	0.880	U	6.03	0.880	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Tetrachloroethene	0.856	U	6.03	0.856	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
1,3-Dichloropropene, Total	0.699	U	6.03	0.699	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
1,2-Dibromoethane	1.23	U	6.03	1.23	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Monochlorobenzene	1.16	U	6.03	1.16	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Ethylbenzene	1.23	U	6.03	1.23	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Xylenes, Total	1.36	U	6.03	1.36	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Styrene	0.856	U	6.03	0.856	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Tribromomethane	1.65	U	6.03	1.65	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
1,1,2,2-Tetrachloroethane	1.05	U	6.03	1.05	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
1,4-Dichlorobenzene	0.795	U	6.03	0.795	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
1,2-Dichlorobenzene	0.964	U	6.03	0.964	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
1,2,4-Trichlorobenzene	2.37	U	6.03	2.37	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1
Dichlorodifluoromethane	1.86	U	6.03	1.86	ug/Kg	☆	08/12/20 11:03	08/13/20 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		61 - 130	08/12/20 11:03	08/13/20 15:10	1
Dibromofluoromethane	91		68 - 140	08/12/20 11:03	08/13/20 15:10	1
Toluene-d8 (Surr)	92		50 - 130	08/12/20 11:03	08/13/20 15:10	1
4-Bromofluorobenzene	115		57 - 140	08/12/20 11:03	08/13/20 15:10	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.83	U	38.4	4.83	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
N-Nitrosodiethylamine	8.28	U	38.4	8.28	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE99-S-2-3-200807

Lab Sample ID: 600-209490-1

Date Collected: 08/07/20 09:40

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	1.90	U	38.4	1.90	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Hexachloroethane	2.66	U	38.4	2.66	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
N-Nitrosopyrrolidine	5.38	U	38.4	5.38	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Nitrobenzene	3.41	U	38.4	3.41	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Isophorone	1.15	U	38.4	1.15	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
2,4-Dichlorophenol	4.46	U	38.4	4.46	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Naphthalene	1.56	U	38.4	1.56	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Hexachlorobutadiene	2.21	U	38.4	2.21	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
N-Nitrosodi-n-butylamine	19.2	U	38.4	19.2	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
2-Methylnaphthalene	3.16	U	38.4	3.16	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
1-Methylnaphthalene	1.81	U	38.4	1.81	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
1,2,4,5-Tetrachlorobenzene	7.78	U	38.4	7.78	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Hexachlorocyclopentadiene	5.32	U	38.4	5.32	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
2,4,6-Trichlorophenol	3.09	U	38.4	3.09	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
2,4,5-Trichlorophenol	11.5	U	38.4	11.5	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Dimethyl phthalate	5.64	U	76.9	5.64	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Acenaphthylene	1.15	U	38.4	1.15	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
2,6-Dinitrotoluene	3.40	U	38.4	3.40	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Acenaphthene	1.66	U	38.4	1.66	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Dinitrophenols	5.44	U	115	5.44	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Pentachlorobenzene	4.62	U	38.4	4.62	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
2,4-Dinitrotoluene	4.16	U	38.4	4.16	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Diethyl phthalate	9.72	U	76.9	9.72	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Fluorene	2.72	U	38.4	2.72	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Dinitro-o-cresol	5.74	U	196	5.74	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
N-Nitrosodiphenylamine	2.18	U	38.4	2.18	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Diphenylhydrazine, 1,2-	1.87	U	38.4	1.87	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Hexachlorobenzene	1.75	U	38.4	1.75	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Atrazine	5.79	U	38.4	5.79	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Pentachlorophenol	4.61	U	193	4.61	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Phenanthrene	5.71	U	38.4	5.71	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Anthracene	1.48	U	38.4	1.48	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Dibutylphthalate	8.51	J	76.9	2.99	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Fluoranthene	3.59	U	38.4	3.59	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Benzidine	10.4	U	381	10.4	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Pyrene	2.11	U	38.4	2.11	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Dichlorobenzidine, 3,3'-	11.7	U	38.4	11.7	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Benzo[a]anthracene	1.59	U	38.4	1.59	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Di (2-ethylhexyl)phthalate	22.6	J	38.4	6.19	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Chrysene	1.18	U	38.4	1.18	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Benzo[b]fluoranthene	1.98	U	38.4	1.98	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Benzo[k]fluoranthene	1.72	U	38.4	1.72	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Benzo[a]pyrene	1.86	U	38.4	1.86	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Indeno[1,2,3-cd]pyrene	4.04	U	38.4	4.04	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Dibenz(a,h)anthracene	4.19	U	38.4	4.19	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Benzo[g,h,i]perylene	5.85	U	38.4	5.85	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
bis (2-chloroisopropyl) ether	10.2	U	38.4	10.2	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1
Thiophene, tetrahydro-, 1,1-dioxide	19.2	U	38.4	19.2	ug/Kg	☆	08/12/20 11:16	08/17/20 14:26	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE99-S-2-3-200807

Lab Sample ID: 600-209490-1

Date Collected: 08/07/20 09:40

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	32		10 - 148	08/12/20 11:16	08/17/20 14:26	1
2-Fluorobiphenyl	91		38 - 130	08/12/20 11:16	08/17/20 14:26	1
2-Fluorophenol	85		25 - 132	08/12/20 11:16	08/17/20 14:26	1
Nitrobenzene-d5	86		10 - 155	08/12/20 11:16	08/17/20 14:26	1
Terphenyl-d14	110		53 - 134	08/12/20 11:16	08/17/20 14:26	1
Phenol-d5 (Surr)	84		27 - 130	08/12/20 11:16	08/17/20 14:26	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.5	U	74.5	13.5	ug/Kg	☼	08/18/20 13:26	08/20/20 20:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	36		30 - 164				08/18/20 13:26	08/20/20 20:59	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.731	J	1.17	0.683	mg/Kg	☼	08/08/20 15:03	08/13/20 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		70 - 130				08/08/20 15:03	08/13/20 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.65	J	8.58	2.94	mg/Kg	☼	08/10/20 15:56	08/13/20 19:12	1
C28-C36	38.2		8.58	8.58	mg/Kg	☼	08/10/20 15:56	08/13/20 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	107		60 - 140				08/10/20 15:56	08/13/20 19:12	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.50	U	1.95	1.50	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Hexachlorocyclohexane, beta-	1.17	U	1.95	1.17	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Hexachlorocyclohexane, delta-	0.976	U	1.95	0.976	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Hexachlorocyclohexane, alpha-	1.15	U	1.95	1.15	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Hexachlorocyclohexane, gamma-	1.07	U	1.95	1.07	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Chlordane (technical)	26.9	U	86.1	26.9	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
DDT	2.12	U	3.79	2.12	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Dieldrin	1.60	U	3.79	1.60	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Endosulfan I	1.15	U	1.95	1.15	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Endosulfan II	1.73	U	3.79	1.73	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Endosulfan sulfate	1.93	U	3.79	1.93	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Endrin	1.76	U	3.79	1.76	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Endrin aldehyde	1.79	U	3.79	1.79	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Heptachlor	1.07	U	1.95	1.07	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Heptachlor epoxide	1.34	U	1.95	1.34	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Toxaphene	83.9	U	195	83.9	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		47 - 150				08/11/20 08:51	08/12/20 00:33	1
Tetrachloro-m-xylene	86		50 - 143				08/11/20 08:51	08/12/20 00:33	1

Eurofins TestAmerica, Houston

Client Sample Results

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Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE99-S-2-3-200807

Lab Sample ID: 600-209490-1

Date Collected: 08/07/20 09:40

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.6

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00184	U	0.0192	0.00184	mg/Kg	☆	08/11/20 08:51	08/12/20 18:12	1
PCB-1221	0.00991	U	0.0192	0.00991	mg/Kg	☆	08/11/20 08:51	08/12/20 18:12	1
PCB-1232	0.00769	U	0.0192	0.00769	mg/Kg	☆	08/11/20 08:51	08/12/20 18:12	1
PCB-1242	0.00142	U	0.0192	0.00142	mg/Kg	☆	08/11/20 08:51	08/12/20 18:12	1
PCB-1248	0.00286	U	0.0192	0.00286	mg/Kg	☆	08/11/20 08:51	08/12/20 18:12	1
PCB-1254	0.00254	U	0.0192	0.00254	mg/Kg	☆	08/11/20 08:51	08/12/20 18:12	1
PCB-1260	0.0155	U	0.0192	0.0155	mg/Kg	☆	08/11/20 08:51	08/12/20 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		10 - 150	08/11/20 08:51	08/12/20 18:12	1
DCB Decachlorobiphenyl	108		10 - 150	08/11/20 08:51	08/12/20 18:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.90		4.62	0.617	mg/Kg	☆		08/12/20 01:14	1
Nitrate as N	13.7		2.31	0.290	mg/Kg	☆		08/12/20 01:14	1
Fluoride	5.45		2.31	0.694	mg/Kg	☆		08/12/20 01:14	1
Nitrite as N	0.343	U	2.31	0.343	mg/Kg	☆		08/12/20 01:14	1
Sulfate	262		5.77	1.10	mg/Kg	☆		08/12/20 01:14	1

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0224	U	0.0986	0.0224	mg/Kg		08/12/20 15:04	08/14/20 00:44	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0424	U	0.197	0.0424	mg/Kg		08/12/20 15:04	08/14/20 00:44	1
2,4,6-Trinitrotoluene	0.0303	U	0.0986	0.0303	mg/Kg		08/12/20 15:04	08/14/20 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	102		83 - 122	08/12/20 15:04	08/14/20 00:44	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0922	U	0.559	0.0922	ug/Kg	☆	08/12/20 11:00	08/20/20 16:30	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.255	U	0.888	0.255	ug/Kg	☆	08/17/20 14:49	08/24/20 14:50	1
Perfluorohexanesulfonic acid (PFHxS)	0.311	U	0.888	0.311	ug/Kg	☆	08/17/20 14:49	08/24/20 14:50	1
Perfluorooctanesulfonic acid (PFOS)	0.155	U	0.888	0.155	ug/Kg	☆	08/17/20 14:49	08/24/20 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	08/17/20 14:49	08/24/20 14:50	1
13C8 PFOS	93		70 - 130	08/17/20 14:49	08/24/20 14:50	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.754	U	2.01	0.754	mg/Kg	☆	09/04/20 10:33	09/09/20 19:58	20
Arsenic	4.02	U	10.1	4.02	mg/Kg	☆	09/04/20 10:33	09/09/20 19:58	20
Barium	312		20.1	5.03	mg/Kg	☆	09/04/20 10:33	09/09/20 19:58	20
Beryllium	0.402	U	1.01	0.402	mg/Kg	☆	09/04/20 10:33	09/09/20 19:58	20
Cadmium	0.241	U	0.503	0.241	mg/Kg	☆	09/04/20 10:33	09/09/20 19:58	20
Chromium	4.53	U	10.1	4.53	mg/Kg	☆	09/04/20 10:33	09/09/20 19:58	20

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE99-S-2-3-200807

Lab Sample ID: 600-209490-1

Date Collected: 08/07/20 09:40

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.6

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2510		121	60.3	mg/Kg	☆	09/04/20 10:33	09/09/20 19:58	20
Copper	4.02	U	10.1	4.02	mg/Kg	☆	09/04/20 10:33	09/09/20 19:58	20
Manganese	18.6		5.03	2.01	mg/Kg	☆	09/04/20 10:33	09/09/20 19:58	20
Lead	1.28	J	3.02	1.26	mg/Kg	☆	09/04/20 10:33	09/09/20 19:58	20
Antimony	2.01	U	5.03	2.01	mg/Kg	☆	09/04/20 10:33	09/09/20 19:58	20
Selenium	3.22	U	5.03	3.22	mg/Kg	☆	09/04/20 10:33	09/09/20 19:58	20
Thallium	2.01	U	5.03	2.01	mg/Kg	☆	09/04/20 10:33	09/09/20 19:58	20
Zinc	20.1	U	50.3	20.1	mg/Kg	☆	09/04/20 10:33	09/09/20 19:58	20
Uranium	0.402	U	1.01	0.402	mg/Kg	☆	09/04/20 10:33	09/09/20 19:58	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00413	U	0.0196	0.00413	mg/Kg	☆	09/02/20 13:16	09/03/20 14:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.4		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	86.6		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0196	U	0.131	0.0196	mg/Kg	☆	08/20/20 13:55	08/20/20 17:52	1
pH	8.8	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.481	U	0.574	0.481	mg/Kg	☆	08/21/20 12:16	08/21/20 13:52	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	132		10.0	10.0	mg/L			08/17/20 11:57	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	0.392		0.122	0.128	1.00	0.112	pCi/g	08/17/20 17:22	09/08/20 17:34	1
Radium-228	0.112	U	0.180	0.180		0.210	pCi/g	08/17/20 17:22	09/08/20 17:34	1
Combined Radium 226 + 228	0.504		0.217	0.221		0.210	pCi/g	08/17/20 17:22	09/08/20 17:34	1

Client Sample ID: CELL19-SQUARE27-S-2-3-200807

Lab Sample ID: 600-209490-2

Date Collected: 08/07/20 10:26

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.87	U	11.2	1.87	ug/Kg	☆	08/12/20 11:03	08/13/20 15:34	1
Vinyl chloride	1.01	U	11.2	1.01	ug/Kg	☆	08/12/20 11:03	08/13/20 15:34	1
Bromomethane	0.933	U	11.2	0.933	ug/Kg	☆	08/12/20 11:03	08/13/20 15:34	1
Trichlorofluoromethane	0.742	U	11.2	0.742	ug/Kg	☆	08/12/20 11:03	08/13/20 15:34	1
Acrolein	7.01	U	28.1	7.01	ug/Kg	☆	08/12/20 11:03	08/13/20 15:34	1
1,1-Dichloroethene	1.37	U	5.62	1.37	ug/Kg	☆	08/12/20 11:03	08/13/20 15:34	1
trans-1,2-Dichloroethene	1.28	U	5.62	1.28	ug/Kg	☆	08/12/20 11:03	08/13/20 15:34	1
Methyl tert-butyl ether	2.06	U	5.62	2.06	ug/Kg	☆	08/12/20 11:03	08/13/20 15:34	1
Methylene Chloride	4.69	J	11.2	2.46	ug/Kg	☆	08/12/20 11:03	08/13/20 15:34	1
Acrylonitrile	6.54	U	56.2	6.54	ug/Kg	☆	08/12/20 11:03	08/13/20 15:34	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE27-S-2-3-200807

Lab Sample ID: 600-209490-2

Date Collected: 08/07/20 10:26

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.933	U	5.62	0.933	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
Carbon tetrachloride	1.27	U	5.62	1.27	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
Benzene	1.55	J	5.62	0.708	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
1,2-Dichloroethane	1.01	U	5.62	1.01	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
Trichloroethene	1.57	U	5.62	1.57	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
1,1,1-Trichloroethane	0.832	U	5.62	0.832	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
1,1-Dichloroethane	0.978	U	5.62	0.978	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
1,2-Dichloropropane	0.798	U	5.62	0.798	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
1,4-Dioxane	69.8	U	562	69.8	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
Chloroform	2.27	J b	11.2	0.742	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
Bromodichloromethane	0.742	U	5.62	0.742	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
1,1-Dichloropropene	0.731	U	5.62	0.731	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
cis-1,3-Dichloropropene	0.607	U	5.62	0.607	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
Toluene	1.55	U	5.62	1.55	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
trans-1,3-Dichloropropene	0.652	U	5.62	0.652	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
1,1,2-Trichloroethane	0.821	U	5.62	0.821	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
Tetrachloroethene	0.798	U	5.62	0.798	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
1,3-Dichloropropene, Total	0.652	U	5.62	0.652	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
1,2-Dibromoethane	1.15	U	5.62	1.15	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
Monochlorobenzene	1.08	U	5.62	1.08	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
Ethylbenzene	1.15	U	5.62	1.15	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
Xylenes, Total	1.27	U	5.62	1.27	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
Styrene	0.798	U	5.62	0.798	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
Tribromomethane	1.54	U	5.62	1.54	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
1,1,2,2-Tetrachloroethane	0.978	U	5.62	0.978	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
1,4-Dichlorobenzene	0.742	U	5.62	0.742	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
1,2-Dichlorobenzene	0.900	U	5.62	0.900	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
1,2,4-Trichlorobenzene	2.22	U	5.62	2.22	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
Dichlorodifluoromethane	1.73	U	5.62	1.73	ug/Kg	✱	08/12/20 11:03	08/13/20 15:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		61 - 130				08/12/20 11:03	08/13/20 15:34	1
Dibromofluoromethane	89		68 - 140				08/12/20 11:03	08/13/20 15:34	1
Toluene-d8 (Surr)	87		50 - 130				08/12/20 11:03	08/13/20 15:34	1
4-Bromofluorobenzene	108		57 - 140				08/12/20 11:03	08/13/20 15:34	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.69	U	37.3	4.69	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
N-Nitrosodiethylamine	8.04	U	37.3	8.04	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Bis(2-chloroethyl)ether	1.85	U	37.3	1.85	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Hexachloroethane	2.59	U	37.3	2.59	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
N-Nitrosopyrrolidine	5.23	U	37.3	5.23	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Nitrobenzene	3.32	U	37.3	3.32	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Isophorone	1.12	U	37.3	1.12	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
2,4-Dichlorophenol	4.33	U	37.3	4.33	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Naphthalene	1.51	U	37.3	1.51	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Hexachlorobutadiene	2.15	U	37.3	2.15	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
N-Nitrosodi-n-butylamine	18.7	U	37.3	18.7	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
2-Methylnaphthalene	3.07	U	37.3	3.07	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE27-S-2-3-200807

Lab Sample ID: 600-209490-2

Date Collected: 08/07/20 10:26

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	1.76	U	37.3	1.76	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
1,2,4,5-Tetrachlorobenzene	7.56	U	37.3	7.56	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Hexachlorocyclopentadiene	5.16	U	37.3	5.16	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
2,4,6-Trichlorophenol	3.00	U	37.3	3.00	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
2,4,5-Trichlorophenol	11.2	U	37.3	11.2	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Dimethyl phthalate	5.48	U	74.7	5.48	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Acenaphthylene	1.12	U	37.3	1.12	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
2,6-Dinitrotoluene	3.30	U	37.3	3.30	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Acenaphthene	1.61	U	37.3	1.61	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Dinitrophenols	5.29	U	112	5.29	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Pentachlorobenzene	4.49	U	37.3	4.49	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
2,4-Dinitrotoluene	4.04	U	37.3	4.04	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Diethyl phthalate	9.44	U	74.7	9.44	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Fluorene	2.64	U	37.3	2.64	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Dinitro-o-cresol	5.58	U	190	5.58	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
N-Nitrosodiphenylamine	2.12	U	37.3	2.12	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Diphenylhydrazine, 1,2-	1.81	U	37.3	1.81	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Hexachlorobenzene	1.70	U	37.3	1.70	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Atrazine	5.62	U	37.3	5.62	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Pentachlorophenol	4.48	U	187	4.48	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Phenanthrene	5.54	U	37.3	5.54	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Anthracene	1.43	U	37.3	1.43	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Dibutylphthalate	11.6	J	74.7	2.90	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Fluoranthene	3.48	U	37.3	3.48	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Benzidine	10.1	U	370	10.1	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Pyrene	2.05	U	37.3	2.05	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Dichlorobenzidine, 3,3'-	11.4	U	37.3	11.4	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Benzo[a]anthracene	1.55	U	37.3	1.55	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Di (2-ethylhexyl)phthalate	23.8	J	37.3	6.01	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Chrysene	1.14	U	37.3	1.14	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Benzo[b]fluoranthene	1.93	U	37.3	1.93	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Benzo[k]fluoranthene	1.67	U	37.3	1.67	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Benzo[a]pyrene	1.80	U	37.3	1.80	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Indeno[1,2,3-cd]pyrene	3.92	U	37.3	3.92	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Dibenz(a,h)anthracene	4.07	U	37.3	4.07	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Benzo[g,h,i]perylene	5.68	U	37.3	5.68	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
bis (2-chloroisopropyl) ether	9.90	U	37.3	9.90	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1
Thiophene, tetrahydro-, 1,1-dioxide	18.7	U	37.3	18.7	ug/Kg	✱	08/12/20 11:16	08/17/20 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	32		10 - 148	08/12/20 11:16	08/17/20 14:50	1
2-Fluorobiphenyl	85		38 - 130	08/12/20 11:16	08/17/20 14:50	1
2-Fluorophenol	78		25 - 132	08/12/20 11:16	08/17/20 14:50	1
Nitrobenzene-d5	81		10 - 155	08/12/20 11:16	08/17/20 14:50	1
Terphenyl-d14	105		53 - 134	08/12/20 11:16	08/17/20 14:50	1
Phenol-d5 (Surr)	79		27 - 130	08/12/20 11:16	08/17/20 14:50	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.2	U	72.6	13.2	ug/Kg	✱	08/18/20 13:26	08/20/20 21:24	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE27-S-2-3-200807

Lab Sample ID: 600-209490-2

Date Collected: 08/07/20 10:26

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.8

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	0	X	30 - 164				08/18/20 13:26	08/20/20 21:24	1
Method: 8015B - Gasoline Range Organics - (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.664	U	1.13	0.664	mg/Kg	☼	08/08/20 15:03	08/13/20 14:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		70 - 130				08/08/20 15:03	08/13/20 14:57	1
Method: 8015B - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11.8		8.43	2.88	mg/Kg	☼	08/10/20 15:56	08/13/20 19:45	1
C28-C36	37.6		8.43	8.43	mg/Kg	☼	08/10/20 15:56	08/13/20 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	97		60 - 140				08/10/20 15:56	08/13/20 19:45	1
Method: 8081A - Organochlorine Pesticides (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.47	U	1.91	1.47	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Hexachlorocyclohexane, beta-	1.15	U	1.91	1.15	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Hexachlorocyclohexane, delta-	0.956	U	1.91	0.956	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Hexachlorocyclohexane, alpha-	1.13	U	1.91	1.13	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Hexachlorocyclohexane, gamma-	1.05	U	1.91	1.05	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Chlordane (technical)	26.3	U	84.4	26.3	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
DDT	2.08	U	3.71	2.08	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Dieldrin	1.56	U	3.71	1.56	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Endosulfan I	1.13	U	1.91	1.13	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Endosulfan II	1.70	U	3.71	1.70	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Endosulfan sulfate	1.89	U	3.71	1.89	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Endrin	1.72	U	3.71	1.72	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Endrin aldehyde	1.76	U	3.71	1.76	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Heptachlor	1.05	U	1.91	1.05	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Heptachlor epoxide	1.32	U	1.91	1.32	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Toxaphene	82.3	U	191	82.3	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	47		47 - 150				08/11/20 08:51	08/12/20 00:58	1
Tetrachloro-m-xylene	97		50 - 143				08/11/20 08:51	08/12/20 00:58	1
Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00180	U	0.0188	0.00180	mg/Kg	☼	08/11/20 08:51	08/13/20 11:39	1
PCB-1221	0.00971	U	0.0188	0.00971	mg/Kg	☼	08/11/20 08:51	08/13/20 11:39	1
PCB-1232	0.00754	U	0.0188	0.00754	mg/Kg	☼	08/11/20 08:51	08/13/20 11:39	1
PCB-1242	0.00140	U	0.0188	0.00140	mg/Kg	☼	08/11/20 08:51	08/13/20 11:39	1
PCB-1248	0.00280	U	0.0188	0.00280	mg/Kg	☼	08/11/20 08:51	08/13/20 11:39	1
PCB-1254	0.00249	U	0.0188	0.00249	mg/Kg	☼	08/11/20 08:51	08/13/20 11:39	1
PCB-1260	0.0152	U	0.0188	0.0152	mg/Kg	☼	08/11/20 08:51	08/13/20 11:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	106		10 - 150				08/11/20 08:51	08/13/20 11:39	1

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Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE27-S-2-3-200807

Lab Sample ID: 600-209490-2

Date Collected: 08/07/20 10:26

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.8

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	120		10 - 150	08/11/20 08:51	08/13/20 11:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.75	J	4.51	0.602	mg/Kg	✱		08/12/20 01:35	1
Nitrate as N	8.80		2.25	0.283	mg/Kg	✱		08/12/20 01:35	1
Fluoride	9.08		2.25	0.678	mg/Kg	✱		08/12/20 01:35	1
Nitrite as N	0.335	U	2.25	0.335	mg/Kg	✱		08/12/20 01:35	1
Sulfate	101		5.63	1.08	mg/Kg	✱		08/12/20 01:35	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		08/12/20 15:04	08/14/20 01:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0416	U	0.193	0.0416	mg/Kg		08/12/20 15:04	08/14/20 01:07	1
2,4,6-Trinitrotoluene	0.0297	U	0.0967	0.0297	mg/Kg		08/12/20 15:04	08/14/20 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	100		83 - 122	08/12/20 15:04	08/14/20 01:07	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0910	U	0.552	0.0910	ug/Kg	✱	08/12/20 11:00	08/20/20 16:35	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.240	U	0.836	0.240	ug/Kg	✱	08/17/20 14:49	08/24/20 14:59	1
Perfluorohexanesulfonic acid (PFHxS)	0.293	U	0.836	0.293	ug/Kg	✱	08/17/20 14:49	08/24/20 14:59	1
Perfluorooctanesulfonic acid (PFOS)	0.146	U	0.836	0.146	ug/Kg	✱	08/17/20 14:49	08/24/20 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	101		57 - 153	08/17/20 14:49	08/24/20 14:59	1
13C8 PFOS	103		70 - 130	08/17/20 14:49	08/24/20 14:59	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.807	U	2.15	0.807	mg/Kg	✱	09/04/20 10:33	09/09/20 20:01	20
Arsenic	4.30	U	10.8	4.30	mg/Kg	✱	09/04/20 10:33	09/09/20 20:01	20
Barium	420		21.5	5.38	mg/Kg	✱	09/04/20 10:33	09/09/20 20:01	20
Beryllium	0.430	U	1.08	0.430	mg/Kg	✱	09/04/20 10:33	09/09/20 20:01	20
Cadmium	0.258	U	0.538	0.258	mg/Kg	✱	09/04/20 10:33	09/09/20 20:01	20
Chromium	4.84	U	10.8	4.84	mg/Kg	✱	09/04/20 10:33	09/09/20 20:01	20
Iron	1290		129	64.5	mg/Kg	✱	09/04/20 10:33	09/09/20 20:01	20
Copper	4.30	U	10.8	4.30	mg/Kg	✱	09/04/20 10:33	09/09/20 20:01	20
Manganese	15.9		5.38	2.15	mg/Kg	✱	09/04/20 10:33	09/09/20 20:01	20
Lead	1.34	U	3.23	1.34	mg/Kg	✱	09/04/20 10:33	09/09/20 20:01	20
Antimony	2.15	U	5.38	2.15	mg/Kg	✱	09/04/20 10:33	09/09/20 20:01	20
Selenium	3.44	U	5.38	3.44	mg/Kg	✱	09/04/20 10:33	09/09/20 20:01	20
Thallium	2.15	U	5.38	2.15	mg/Kg	✱	09/04/20 10:33	09/09/20 20:01	20
Zinc	21.5	U	53.8	21.5	mg/Kg	✱	09/04/20 10:33	09/09/20 20:01	20
Uranium	0.430	U	1.08	0.430	mg/Kg	✱	09/04/20 10:33	09/09/20 20:01	20

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE27-S-2-3-200807

Lab Sample ID: 600-209490-2

Date Collected: 08/07/20 10:26

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.8

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00390	U	0.0185	0.00390	mg/Kg	☆	09/02/20 13:16	09/03/20 14:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.2		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	88.8		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0200	U	0.133	0.0200	mg/Kg	☆	08/20/20 13:55	08/20/20 17:53	1
pH	8.8	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.470	U	0.560	0.470	mg/Kg	☆	08/21/20 12:16	08/21/20 13:53	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	116		10.0	10.0	mg/L			08/17/20 11:57	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	0.546		0.150	0.160	1.00	0.0960	pCi/g	08/17/20 17:22	09/08/20 17:37	1
Radium-228	0.0103	U	0.0316	0.0316		0.428	pCi/g	08/17/20 17:22	09/08/20 17:37	1
Combined Radium 226 + 228	0.557		0.153	0.163		0.428	pCi/g	08/17/20 17:22	09/08/20 17:37	1

Client Sample ID: CELL19-SQUARE43-S-2-3-200807

Lab Sample ID: 600-209490-3

Date Collected: 08/07/20 10:58

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.04	U	12.3	2.04	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
Vinyl chloride	1.10	U	12.3	1.10	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
Bromomethane	1.02	U	12.3	1.02	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
Trichlorofluoromethane	0.809	U	12.3	0.809	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
Acrolein	7.64	U	30.7	7.64	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
1,1-Dichloroethene	1.50	U	6.13	1.50	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
trans-1,2-Dichloroethene	1.40	U	6.13	1.40	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
Methyl tert-butyl ether	2.24	U	6.13	2.24	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
Methylene Chloride	4.76	J	12.3	2.69	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
Acrylonitrile	7.14	U	61.3	7.14	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
cis-1,2-Dichloroethene	1.02	U	6.13	1.02	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
Carbon tetrachloride	1.39	U	6.13	1.39	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
Benzene	2.85	J	6.13	0.773	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
1,2-Dichloroethane	1.10	U	6.13	1.10	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
Trichloroethene	1.72	U	6.13	1.72	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
1,1,1-Trichloroethane	0.907	U	6.13	0.907	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
1,1-Dichloroethane	1.07	U	6.13	1.07	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
1,2-Dichloropropane	0.871	U	6.13	0.871	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
1,4-Dioxane	76.1	U	613	76.1	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
Chloroform	2.51	J b	12.3	0.809	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
Bromodichloromethane	0.809	U	6.13	0.809	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1
1,1-Dichloropropene	0.797	U	6.13	0.797	ug/Kg	☆	08/12/20 11:03	08/13/20 15:58	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE43-S-2-3-200807

Lab Sample ID: 600-209490-3

Date Collected: 08/07/20 10:58

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.662	U	6.13	0.662	ug/Kg	✱	08/12/20 11:03	08/13/20 15:58	1
Toluene	1.69	U	6.13	1.69	ug/Kg	✱	08/12/20 11:03	08/13/20 15:58	1
trans-1,3-Dichloropropene	0.711	U	6.13	0.711	ug/Kg	✱	08/12/20 11:03	08/13/20 15:58	1
1,1,2-Trichloroethane	0.895	U	6.13	0.895	ug/Kg	✱	08/12/20 11:03	08/13/20 15:58	1
Tetrachloroethene	0.871	U	6.13	0.871	ug/Kg	✱	08/12/20 11:03	08/13/20 15:58	1
1,3-Dichloropropene, Total	0.711	U	6.13	0.711	ug/Kg	✱	08/12/20 11:03	08/13/20 15:58	1
1,2-Dibromoethane	1.25	U	6.13	1.25	ug/Kg	✱	08/12/20 11:03	08/13/20 15:58	1
Monochlorobenzene	1.18	U	6.13	1.18	ug/Kg	✱	08/12/20 11:03	08/13/20 15:58	1
Ethylbenzene	1.25	U	6.13	1.25	ug/Kg	✱	08/12/20 11:03	08/13/20 15:58	1
Xylenes, Total	1.39	U	6.13	1.39	ug/Kg	✱	08/12/20 11:03	08/13/20 15:58	1
Styrene	0.871	U	6.13	0.871	ug/Kg	✱	08/12/20 11:03	08/13/20 15:58	1
Tribromomethane	1.68	U	6.13	1.68	ug/Kg	✱	08/12/20 11:03	08/13/20 15:58	1
1,1,2,2-Tetrachloroethane	1.07	U	6.13	1.07	ug/Kg	✱	08/12/20 11:03	08/13/20 15:58	1
1,4-Dichlorobenzene	0.809	U	6.13	0.809	ug/Kg	✱	08/12/20 11:03	08/13/20 15:58	1
1,2-Dichlorobenzene	0.981	U	6.13	0.981	ug/Kg	✱	08/12/20 11:03	08/13/20 15:58	1
1,2,4-Trichlorobenzene	2.42	U	6.13	2.42	ug/Kg	✱	08/12/20 11:03	08/13/20 15:58	1
Dichlorodifluoromethane	1.89	U	6.13	1.89	ug/Kg	✱	08/12/20 11:03	08/13/20 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		61 - 130	08/12/20 11:03	08/13/20 15:58	1
Dibromofluoromethane	86		68 - 140	08/12/20 11:03	08/13/20 15:58	1
Toluene-d8 (Surr)	86		50 - 130	08/12/20 11:03	08/13/20 15:58	1
4-Bromofluorobenzene	102		57 - 140	08/12/20 11:03	08/13/20 15:58	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.81	U	38.3	4.81	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
N-Nitrosodiethylamine	8.25	U	38.3	8.25	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
Bis(2-chloroethyl)ether	1.90	U	38.3	1.90	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
Hexachloroethane	2.65	U	38.3	2.65	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
N-Nitrosopyrrolidine	5.36	U	38.3	5.36	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
Nitrobenzene	3.40	U	38.3	3.40	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
Isophorone	1.15	U	38.3	1.15	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
2,4-Dichlorophenol	4.45	U	38.3	4.45	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
Naphthalene	1.55	U	38.3	1.55	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
Hexachlorobutadiene	2.21	U	38.3	2.21	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
N-Nitrosodi-n-butylamine	19.1	U	38.3	19.1	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
2-Methylnaphthalene	3.99	J	38.3	3.15	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
1-Methylnaphthalene	2.36	J	38.3	1.80	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
1,2,4,5-Tetrachlorobenzene	7.75	U	38.3	7.75	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
Hexachlorocyclopentadiene	5.30	U	38.3	5.30	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
2,4,6-Trichlorophenol	3.08	U	38.3	3.08	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
2,4,5-Trichlorophenol	11.5	U	38.3	11.5	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
Dimethyl phthalate	5.62	U	76.6	5.62	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
Acenaphthylene	1.15	U	38.3	1.15	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
2,6-Dinitrotoluene	3.39	U	38.3	3.39	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
Acenaphthene	1.65	U	38.3	1.65	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
Dinitrophenols	5.42	U	115	5.42	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
Pentachlorobenzene	4.61	U	38.3	4.61	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1
2,4-Dinitrotoluene	4.15	U	38.3	4.15	ug/Kg	✱	08/12/20 11:16	08/17/20 15:15	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE43-S-2-3-200807

Lab Sample ID: 600-209490-3

Date Collected: 08/07/20 10:58

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	9.68	U	76.6	9.68	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Fluorene	2.71	U	38.3	2.71	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Dinitro-o-cresol	5.72	U	195	5.72	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
N-Nitrosodiphenylamine	2.17	U	38.3	2.17	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Diphenylhydrazine, 1,2-	1.86	U	38.3	1.86	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Hexachlorobenzene	1.75	U	38.3	1.75	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Atrazine	5.77	U	38.3	5.77	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Pentachlorophenol	4.59	U	192	4.59	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Phenanthrene	5.69	U	38.3	5.69	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Anthracene	1.47	U	38.3	1.47	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Dibutylphthalate	2.98	U	76.6	2.98	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Fluoranthene	3.57	U	38.3	3.57	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Benzidine	10.4	U	379	10.4	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Pyrene	2.10	U	38.3	2.10	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Dichlorobenzidine, 3,3'-	11.7	U	38.3	11.7	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Benzo[a]anthracene	1.59	U	38.3	1.59	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Di (2-ethylhexyl)phthalate	22.2	J	38.3	6.17	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Chrysene	1.17	U	38.3	1.17	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Benzo[b]fluoranthene	1.98	U	38.3	1.98	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Benzo[k]fluoranthene	1.71	U	38.3	1.71	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Benzo[a]pyrene	1.85	U	38.3	1.85	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Indeno[1,2,3-cd]pyrene	4.02	U	38.3	4.02	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Dibenz(a,h)anthracene	4.17	U	38.3	4.17	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Benzo[g,h,i]perylene	5.82	U	38.3	5.82	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
bis (2-chloroisopropyl) ether	10.2	U	38.3	10.2	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1
Thiophene, tetrahydro-, 1,1-dioxide	19.1	U	38.3	19.1	ug/Kg	☆	08/12/20 11:16	08/17/20 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	54		10 - 148	08/12/20 11:16	08/17/20 15:15	1
2-Fluorobiphenyl	82		38 - 130	08/12/20 11:16	08/17/20 15:15	1
2-Fluorophenol	74		25 - 132	08/12/20 11:16	08/17/20 15:15	1
Nitrobenzene-d5	79		10 - 155	08/12/20 11:16	08/17/20 15:15	1
Terphenyl-d14	110		53 - 134	08/12/20 11:16	08/17/20 15:15	1
Phenol-d5 (Surr)	70		27 - 130	08/12/20 11:16	08/17/20 15:15	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.7	U	75.6	13.7	ug/Kg	☆	08/18/20 13:26	08/20/20 21:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	84		30 - 164	08/18/20 13:26	08/20/20 21:49	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.699	U	1.19	0.699	mg/Kg	☆	08/13/20 07:54	08/13/20 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	102		70 - 130	08/13/20 07:54	08/13/20 15:46	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE43-S-2-3-200807

Lab Sample ID: 600-209490-3

Date Collected: 08/07/20 10:58

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.73	J	8.59	2.94	mg/Kg	☆	08/10/20 15:56	08/13/20 20:18	1
C28-C36	37.2		8.59	8.59	mg/Kg	☆	08/10/20 15:56	08/13/20 20:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	104		60 - 140				08/10/20 15:56	08/13/20 20:18	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.50	U	1.95	1.50	ug/Kg	☆	08/11/20 08:51	08/12/20 01:22	1
Hexachlorocyclohexane, beta-	1.17	U	1.95	1.17	ug/Kg	☆	08/11/20 08:51	08/12/20 01:22	1
Hexachlorocyclohexane, delta-	0.976	U	1.95	0.976	ug/Kg	☆	08/11/20 08:51	08/12/20 01:22	1
Hexachlorocyclohexane, alpha-	1.15	U	1.95	1.15	ug/Kg	☆	08/11/20 08:51	08/12/20 01:22	1
Hexachlorocyclohexane, gamma-	1.07	U	1.95	1.07	ug/Kg	☆	08/11/20 08:51	08/12/20 01:22	1
Chlordane (technical)	26.9	U	86.1	26.9	ug/Kg	☆	08/11/20 08:51	08/12/20 01:22	1
DDT	2.13	U	3.79	2.13	ug/Kg	☆	08/11/20 08:51	08/12/20 01:22	1
Dieldrin	1.60	U	3.79	1.60	ug/Kg	☆	08/11/20 08:51	08/12/20 01:22	1
Endosulfan I	1.15	U	1.95	1.15	ug/Kg	☆	08/11/20 08:51	08/12/20 01:22	1
Endosulfan II	1.73	U	3.79	1.73	ug/Kg	☆	08/11/20 08:51	08/12/20 01:22	1
Endosulfan sulfate	1.93	U	3.79	1.93	ug/Kg	☆	08/11/20 08:51	08/12/20 01:22	1
Endrin	1.76	U	3.79	1.76	ug/Kg	☆	08/11/20 08:51	08/12/20 01:22	1
Endrin aldehyde	1.79	U	3.79	1.79	ug/Kg	☆	08/11/20 08:51	08/12/20 01:22	1
Heptachlor	1.07	U	1.95	1.07	ug/Kg	☆	08/11/20 08:51	08/12/20 01:22	1
Heptachlor epoxide	1.34	U	1.95	1.34	ug/Kg	☆	08/11/20 08:51	08/12/20 01:22	1
Toxaphene	84.0	U	195	84.0	ug/Kg	☆	08/11/20 08:51	08/12/20 01:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		47 - 150				08/11/20 08:51	08/12/20 01:22	1
Tetrachloro-m-xylene	149	X	50 - 143				08/11/20 08:51	08/12/20 01:22	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00184	U	0.0192	0.00184	mg/Kg	☆	08/11/20 08:51	08/13/20 12:05	1
PCB-1221	0.00991	U	0.0192	0.00991	mg/Kg	☆	08/11/20 08:51	08/13/20 12:05	1
PCB-1232	0.00770	U	0.0192	0.00770	mg/Kg	☆	08/11/20 08:51	08/13/20 12:05	1
PCB-1242	0.00142	U	0.0192	0.00142	mg/Kg	☆	08/11/20 08:51	08/13/20 12:05	1
PCB-1248	0.00286	U	0.0192	0.00286	mg/Kg	☆	08/11/20 08:51	08/13/20 12:05	1
PCB-1254	0.00254	U	0.0192	0.00254	mg/Kg	☆	08/11/20 08:51	08/13/20 12:05	1
PCB-1260	0.0155	U	0.0192	0.0155	mg/Kg	☆	08/11/20 08:51	08/13/20 12:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	161	X	10 - 150				08/11/20 08:51	08/13/20 12:05	1
DCB Decachlorobiphenyl	184	X	10 - 150				08/11/20 08:51	08/13/20 12:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.12		4.60	0.614	mg/Kg	☆		08/12/20 01:55	1
Nitrate as N	16.1		2.30	0.289	mg/Kg	☆		08/12/20 01:55	1
Fluoride	9.47		2.30	0.692	mg/Kg	☆		08/12/20 01:55	1
Nitrite as N	0.342	U	2.30	0.342	mg/Kg	☆		08/12/20 01:55	1
Sulfate	286		5.75	1.10	mg/Kg	☆		08/12/20 01:55	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE43-S-2-3-200807

Lab Sample ID: 600-209490-3

Date Collected: 08/07/20 10:58

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.9

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		08/12/20 15:04	08/14/20 01:30	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0422	U	0.196	0.0422	mg/Kg		08/12/20 15:04	08/14/20 01:30	1
2,4,6-Trinitrotoluene	0.0301	U	0.0980	0.0301	mg/Kg		08/12/20 15:04	08/14/20 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	101		83 - 122				08/12/20 15:04	08/14/20 01:30	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0891	U	0.541	0.0891	ug/Kg	✱	08/12/20 11:00	08/20/20 16:40	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.251	U	0.871	0.251	ug/Kg	✱	08/17/20 14:49	08/24/20 15:08	1
Perfluorohexanesulfonic acid (PFHxS)	0.305	U	0.871	0.305	ug/Kg	✱	08/17/20 14:49	08/24/20 15:08	1
Perfluorooctanesulfonic acid (PFOS)	0.152	U	0.871	0.152	ug/Kg	✱	08/17/20 14:49	08/24/20 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	102		57 - 153				08/17/20 14:49	08/24/20 15:08	1
13C8 PFOS	93		70 - 130				08/17/20 14:49	08/24/20 15:08	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.833	U	2.22	0.833	mg/Kg	✱	09/04/20 10:33	09/09/20 20:05	20
Arsenic	4.45	U	11.1	4.45	mg/Kg	✱	09/04/20 10:33	09/09/20 20:05	20
Barium	173		22.2	5.56	mg/Kg	✱	09/04/20 10:33	09/09/20 20:05	20
Beryllium	0.445	U	1.11	0.445	mg/Kg	✱	09/04/20 10:33	09/09/20 20:05	20
Cadmium	0.267	U	0.556	0.267	mg/Kg	✱	09/04/20 10:33	09/09/20 20:05	20
Chromium	5.00	U	11.1	5.00	mg/Kg	✱	09/04/20 10:33	09/09/20 20:05	20
Iron	2420		133	66.7	mg/Kg	✱	09/04/20 10:33	09/09/20 20:05	20
Copper	4.45	U	11.1	4.45	mg/Kg	✱	09/04/20 10:33	09/09/20 20:05	20
Manganese	20.1		5.56	2.22	mg/Kg	✱	09/04/20 10:33	09/09/20 20:05	20
Lead	1.39	U	3.33	1.39	mg/Kg	✱	09/04/20 10:33	09/09/20 20:05	20
Antimony	2.22	U	5.56	2.22	mg/Kg	✱	09/04/20 10:33	09/09/20 20:05	20
Selenium	3.56	U	5.56	3.56	mg/Kg	✱	09/04/20 10:33	09/09/20 20:05	20
Thallium	2.22	U	5.56	2.22	mg/Kg	✱	09/04/20 10:33	09/09/20 20:05	20
Zinc	22.2	U	55.6	22.2	mg/Kg	✱	09/04/20 10:33	09/09/20 20:05	20
Uranium	0.445	U	1.11	0.445	mg/Kg	✱	09/04/20 10:33	09/09/20 20:05	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00374	U	0.0178	0.00374	mg/Kg	✱	09/04/20 10:03	09/04/20 14:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.1		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	86.9		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0204	U	0.136	0.0204	mg/Kg	✱	08/20/20 13:55	08/20/20 17:54	1
pH	8.6	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.481	U	0.574	0.481	mg/Kg	✱	08/21/20 12:16	08/21/20 13:54	1

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Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE43-S-2-3-200807

Lab Sample ID: 600-209490-3

Date Collected: 08/07/20 10:58

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.9

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	158		10.0	10.0	mg/L			08/17/20 11:57	1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.400		0.145	0.151	1.00	0.149	pCi/g	08/17/20 17:22	09/08/20 17:37	1
Radium-228	0.280		0.129	0.132		0.107	pCi/g	08/17/20 17:22	09/08/20 17:37	1
Combined Radium 226 + 228	0.680		0.194	0.201		0.149	pCi/g	08/17/20 17:22	09/08/20 17:37	1

Eurofins TestAmerica, Houston

Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 600-209490-1

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/MS Semi VOA

Qualifier	Qualifier Description
E	Result is greater than the UQL and the concentration is an estimated value.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

GC 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.
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.

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
H	Sample was prepped or analyzed beyond the specified holding time
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Eurofins TestAmerica, Houston

Definitions/Glossary

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

Job ID: 600-209490-1

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

Surrogate Summary

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

Job ID: 600-209490-1

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 (61-130)	DBFM (68-140)	TOL (50-130)	BFB (57-140)
600-209490-1	CELL19-SQUARE99-S-2-3-200	105	91	92	115
600-209490-2	CELL19-SQUARE27-S-2-3-200	104	89	87	108
	807				
600-209490-3	CELL19-SQUARE43-S-2-3-200	99	86	86	102
	807				
LCS 600-301050/3	Lab Control Sample	86	87	97	112
LCSD 600-301050/4	Lab Control Sample Dup	80	82	92	103
MB 600-301050/6	Method Blank	103	90	94	111
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
DBFM = Dibromofluoromethane					
TOL = Toluene-d8 (Surr)					
BFB = 4-Bromofluorobenzene					

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (10-148)	FBP (38-130)	2FP (25-132)	NBZ (10-155)	TPHL (53-134)	PHL (27-130)
600-209490-1	CELL19-SQUARE99-S-2-3-200	32	91	85	86	110	84
600-209490-2	CELL19-SQUARE27-S-2-3-200	32	85	78	81	105	79
	807						
600-209490-3	CELL19-SQUARE43-S-2-3-200	54	82	74	79	110	70
	807						
LCS 600-300979/24-A	Lab Control Sample	99	95	87	91	116	89
LCS 600-300979/25-A	Lab Control Sample	56	85	73	84	109	79
LCS 600-300979/2-A	Lab Control Sample	100	98	91	95	112	93
MB 600-300979/1-A	Method Blank	76	90	84	89	113	84
Surrogate Legend							
TBP = 2,4,6-Tribromophenol							
FBP = 2-Fluorobiphenyl							
2FP = 2-Fluorophenol							
NBZ = Nitrobenzene-d5							
TPHL = Terphenyl-d14							
PHL = Phenol-d5 (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)	
600-209490-1	CELL19-SQUARE99-S-2-3-200	36	
600-209490-2	CELL19-SQUARE27-S-2-3-200	0 X	
	807		
600-209490-2 MS	CELL19-SQUARE27-S-2-3-200	92	
	807		
600-209490-2 MSD	CELL19-SQUARE27-S-2-3-200	65	
	807		

Eurofins TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209490-1

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)
600-209490-3	CELL19-SQUARE43-S-2-3-200807	84
LCS 400-500724/2-A	Lab Control Sample	87
LCS 400-501105/2-A	Lab Control Sample	101
MB 400-500724/1-A	Method Blank	75
MB 400-501105/1-A	Method Blank	96

Surrogate Legend

TPP = Triphenylphosphate

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFT1 (70-130)
600-209490-1	CELL19-SQUARE99-S-2-3-200807	95
600-209490-2	CELL19-SQUARE27-S-2-3-200807	95
600-209490-3	CELL19-SQUARE43-S-2-3-200807	102

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH1 (60-140)
600-209490-1	CELL19-SQUARE99-S-2-3-200807	107
600-209490-2	CELL19-SQUARE27-S-2-3-200807	97
600-209490-3	CELL19-SQUARE43-S-2-3-200807	104
LCS 600-300806/2-A	Lab Control Sample	131
LCSD 600-300806/3-A	Lab Control Sample Dup	131
MB 600-300806/1-A	Method Blank	125

Surrogate Legend

OTPH = o-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP1 (47-150)	TCX1 (50-143)
600-209490-1	CELL19-SQUARE99-S-2-3-200807	83	86
600-209490-2	CELL19-SQUARE27-S-2-3-200807	47	97
600-209490-3	CELL19-SQUARE43-S-2-3-200807	93	149 X
LCS 600-300862/2-A	Lab Control Sample	76	74

Eurofins TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209490-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (47-150)	TCX1 (50-143)
LCSD 600-300862/3-A	Lab Control Sample Dup	104	89
MB 600-300862/1-A	Method Blank	127	116
Surrogate Legend			
DCBP = DCB Decachlorobiphenyl			
TCX = Tetrachloro-m-xylene			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (10-150)	DCBP1 (10-150)
600-209490-1	CELL19-SQUARE99-S-2-3-200	84	108
600-209490-2	CELL19-SQUARE27-S-2-3-200 807	106	120
600-209490-3	CELL19-SQUARE43-S-2-3-200 807	161 X	184 X
LCS 600-300862/4-A	Lab Control Sample	85	104
LCSD 600-300862/5-A	Lab Control Sample Dup	78	101
MB 600-300862/1-A	Method Blank	117	165 X
Surrogate Legend			
TCX = Tetrachloro-m-xylene			
DCBP = DCB Decachlorobiphenyl			

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)	
600-209490-1	CELL19-SQUARE99-S-2-3-200	102	
600-209490-2	CELL19-SQUARE27-S-2-3-200 807	100	
600-209490-3	CELL19-SQUARE43-S-2-3-200 807	101	
LCS 280-505436/2-A	Lab Control Sample	106	
MB 280-505436/1-A	Method Blank	102	
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)
600-209490-1	CELL19-SQUARE99-S-2-3-200	103	93
600-209490-2	CELL19-SQUARE27-S-2-3-200 807	101	103
600-209490-3	CELL19-SQUARE43-S-2-3-200 807	102	93

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Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209490-1

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)
DLCK 280-500633/14	Lab Control Sample	108	91
LCS 280-505864/2-A	Lab Control Sample	101	98
MB 280-505864/1-A	Method Blank	104	94

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: 600-209490-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-301050/6

Matrix: Solid

Analysis Batch: 301050

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.66	U	10.0	1.66	ug/Kg			08/13/20 09:16	1
Vinyl chloride	0.900	U	10.0	0.900	ug/Kg			08/13/20 09:16	1
Bromomethane	0.830	U	10.0	0.830	ug/Kg			08/13/20 09:16	1
Trichlorofluoromethane	0.660	U	10.0	0.660	ug/Kg			08/13/20 09:16	1
Acrolein	6.23	U	25.0	6.23	ug/Kg			08/13/20 09:16	1
1,1-Dichloroethene	1.22	U	5.00	1.22	ug/Kg			08/13/20 09:16	1
trans-1,2-Dichloroethene	1.14	U	5.00	1.14	ug/Kg			08/13/20 09:16	1
Methyl tert-butyl ether	1.83	U	5.00	1.83	ug/Kg			08/13/20 09:16	1
Methylene Chloride	2.19	U	10.0	2.19	ug/Kg			08/13/20 09:16	1
Acrylonitrile	5.82	U	50.0	5.82	ug/Kg			08/13/20 09:16	1
cis-1,2-Dichloroethene	0.830	U	5.00	0.830	ug/Kg			08/13/20 09:16	1
Carbon tetrachloride	1.13	U	5.00	1.13	ug/Kg			08/13/20 09:16	1
Benzene	0.630	U	5.00	0.630	ug/Kg			08/13/20 09:16	1
1,2-Dichloroethane	0.900	U	5.00	0.900	ug/Kg			08/13/20 09:16	1
Trichloroethene	1.40	U	5.00	1.40	ug/Kg			08/13/20 09:16	1
1,1,1-Trichloroethane	0.740	U	5.00	0.740	ug/Kg			08/13/20 09:16	1
1,1-Dichloroethane	0.870	U	5.00	0.870	ug/Kg			08/13/20 09:16	1
1,2-Dichloropropane	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
1,4-Dioxane	62.1	U	500	62.1	ug/Kg			08/13/20 09:16	1
Chloroform	1.495	J	10.0	0.660	ug/Kg			08/13/20 09:16	1
Bromodichloromethane	0.660	U	5.00	0.660	ug/Kg			08/13/20 09:16	1
1,1-Dichloropropene	0.650	U	5.00	0.650	ug/Kg			08/13/20 09:16	1
cis-1,3-Dichloropropene	0.540	U	5.00	0.540	ug/Kg			08/13/20 09:16	1
Toluene	1.38	U	5.00	1.38	ug/Kg			08/13/20 09:16	1
trans-1,3-Dichloropropene	0.580	U	5.00	0.580	ug/Kg			08/13/20 09:16	1
1,1,2-Trichloroethane	0.730	U	5.00	0.730	ug/Kg			08/13/20 09:16	1
Tetrachloroethene	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
1,3-Dichloropropene, Total	0.580	U	5.00	0.580	ug/Kg			08/13/20 09:16	1
1,2-Dibromoethane	1.02	U	5.00	1.02	ug/Kg			08/13/20 09:16	1
Monochlorobenzene	0.960	U	5.00	0.960	ug/Kg			08/13/20 09:16	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			08/13/20 09:16	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			08/13/20 09:16	1
Styrene	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
Tribromomethane	1.37	U	5.00	1.37	ug/Kg			08/13/20 09:16	1
1,1,2,2-Tetrachloroethane	0.870	U	5.00	0.870	ug/Kg			08/13/20 09:16	1
1,4-Dichlorobenzene	0.660	U	5.00	0.660	ug/Kg			08/13/20 09:16	1
1,2-Dichlorobenzene	0.800	U	5.00	0.800	ug/Kg			08/13/20 09:16	1
1,2,4-Trichlorobenzene	1.97	U	5.00	1.97	ug/Kg			08/13/20 09:16	1
Dichlorodifluoromethane	1.54	U	5.00	1.54	ug/Kg			08/13/20 09:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		61 - 130		08/13/20 09:16	1
Dibromofluoromethane	90		68 - 140		08/13/20 09:16	1
Toluene-d8 (Surr)	94		50 - 130		08/13/20 09:16	1
4-Bromofluorobenzene	111		57 - 140		08/13/20 09:16	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209490-1

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

Lab Sample ID: LCS 600-301050/3

Matrix: Solid

Analysis Batch: 301050

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	62.60		ug/Kg		125	44 - 141
Vinyl chloride	50.0	56.81		ug/Kg		114	40 - 148
Bromomethane	50.0	47.04		ug/Kg		94	37 - 147
Trichlorofluoromethane	50.0	58.99		ug/Kg		118	53 - 134
Acrolein	250	187.8		ug/Kg		75	10 - 150
1,1-Dichloroethene	50.0	43.46		ug/Kg		87	62 - 142
trans-1,2-Dichloroethene	50.0	45.56		ug/Kg		91	69 - 130
Methyl tert-butyl ether	50.0	48.13		ug/Kg		96	63 - 132
Methylene Chloride	50.0	45.62		ug/Kg		91	61 - 150
Acrylonitrile	500	427.0		ug/Kg		85	43 - 150
cis-1,2-Dichloroethene	50.0	45.90		ug/Kg		92	70 - 130
Carbon tetrachloride	50.0	51.32		ug/Kg		103	58 - 130
Benzene	50.0	46.71		ug/Kg		93	70 - 131
1,2-Dichloroethane	50.0	50.78		ug/Kg		102	58 - 137
Trichloroethene	50.0	43.91		ug/Kg		88	63 - 135
1,1,1-Trichloroethane	50.0	53.00		ug/Kg		106	59 - 130
1,1-Dichloroethane	50.0	50.37		ug/Kg		101	63 - 140
1,2-Dichloropropane	50.0	48.85		ug/Kg		98	70 - 130
1,4-Dioxane	1000	710.8		ug/Kg		71	31 - 150
Chloroform	50.0	50.39		ug/Kg		101	69 - 130
Bromodichloromethane	50.0	50.13		ug/Kg		100	67 - 138
1,1-Dichloropropene	50.0	50.16		ug/Kg		100	67 - 130
cis-1,3-Dichloropropene	50.0	47.14		ug/Kg		94	65 - 130
Toluene	50.0	47.87		ug/Kg		96	67 - 130
trans-1,3-Dichloropropene	50.0	48.68		ug/Kg		97	70 - 130
1,1,2-Trichloroethane	50.0	44.09		ug/Kg		88	67 - 134
Tetrachloroethene	50.0	45.09		ug/Kg		90	43 - 143
1,3-Dichloropropene, Total	100	95.82		ug/Kg		96	70 - 130
1,2-Dibromoethane	50.0	41.52		ug/Kg		83	65 - 136
Monochlorobenzene	50.0	46.20		ug/Kg		92	63 - 131
Ethylbenzene	50.0	45.93		ug/Kg		92	66 - 130
Xylenes, Total	100	93.07		ug/Kg		93	63 - 130
Styrene	50.0	45.04		ug/Kg		90	65 - 133
Tribromomethane	50.0	47.04		ug/Kg		94	43 - 150
1,1,2,2-Tetrachloroethane	50.0	46.75		ug/Kg		94	61 - 138
1,4-Dichlorobenzene	50.0	49.09		ug/Kg		98	65 - 131
1,2-Dichlorobenzene	50.0	49.00		ug/Kg		98	61 - 131
1,2,4-Trichlorobenzene	50.0	45.91		ug/Kg		92	53 - 136
Dichlorodifluoromethane	50.0	67.00		ug/Kg		134	24 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		61 - 130
Dibromofluoromethane	87		68 - 140
Toluene-d8 (Surr)	97		50 - 130
4-Bromofluorobenzene	112		57 - 140

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209490-1

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

Lab Sample ID: LCSD 600-301050/4

Matrix: Solid

Analysis Batch: 301050

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
Chloromethane	50.0	70.57		ug/Kg		141	44 - 141	12	30
Vinyl chloride	50.0	60.70		ug/Kg		121	40 - 148	7	30
Bromomethane	50.0	54.12		ug/Kg		108	37 - 147	14	30
Trichlorofluoromethane	50.0	62.29		ug/Kg		125	53 - 134	5	30
Acrolein	250	187.8		ug/Kg		75	10 - 150	0	30
1,1-Dichloroethene	50.0	48.43		ug/Kg		97	62 - 142	11	30
trans-1,2-Dichloroethene	50.0	49.66		ug/Kg		99	69 - 130	9	30
Methyl tert-butyl ether	50.0	47.56		ug/Kg		95	63 - 132	1	30
Methylene Chloride	50.0	50.95		ug/Kg		102	61 - 150	11	30
Acrylonitrile	500	434.3		ug/Kg		87	43 - 150	2	30
cis-1,2-Dichloroethene	50.0	47.09		ug/Kg		94	70 - 130	3	30
Carbon tetrachloride	50.0	52.91		ug/Kg		106	58 - 130	3	30
Benzene	50.0	49.53		ug/Kg		99	70 - 131	6	30
1,2-Dichloroethane	50.0	53.19		ug/Kg		106	58 - 137	5	30
Trichloroethene	50.0	45.48		ug/Kg		91	63 - 135	4	30
1,1,1-Trichloroethane	50.0	55.40		ug/Kg		111	59 - 130	4	30
1,1-Dichloroethane	50.0	53.77		ug/Kg		108	63 - 140	7	30
1,2-Dichloropropane	50.0	51.35		ug/Kg		103	70 - 130	5	30
1,4-Dioxane	1000	632.7		ug/Kg		63	31 - 150	12	30
Chloroform	50.0	52.23		ug/Kg		104	69 - 130	4	30
Bromodichloromethane	50.0	49.98		ug/Kg		100	67 - 138	0	30
1,1-Dichloropropene	50.0	51.98		ug/Kg		104	67 - 130	4	30
cis-1,3-Dichloropropene	50.0	50.70		ug/Kg		101	65 - 130	7	30
Toluene	50.0	50.63		ug/Kg		101	67 - 130	6	30
trans-1,3-Dichloropropene	50.0	51.03		ug/Kg		102	70 - 130	5	30
1,1,2-Trichloroethane	50.0	44.91		ug/Kg		90	67 - 134	2	30
Tetrachloroethene	50.0	48.92		ug/Kg		98	43 - 143	8	30
1,3-Dichloropropene, Total	100	101.7		ug/Kg		102	70 - 130	6	30
1,2-Dibromoethane	50.0	43.77		ug/Kg		88	65 - 136	5	30
Monochlorobenzene	50.0	48.77		ug/Kg		98	63 - 131	5	30
Ethylbenzene	50.0	48.16		ug/Kg		96	66 - 130	5	30
Xylenes, Total	100	98.14		ug/Kg		98	63 - 130	5	30
Styrene	50.0	47.92		ug/Kg		96	65 - 133	6	30
Tribromomethane	50.0	47.54		ug/Kg		95	43 - 150	1	30
1,1,2,2-Tetrachloroethane	50.0	45.97		ug/Kg		92	61 - 138	2	30
1,4-Dichlorobenzene	50.0	51.20		ug/Kg		102	65 - 131	4	30
1,2-Dichlorobenzene	50.0	52.28		ug/Kg		105	61 - 131	6	30
1,2,4-Trichlorobenzene	50.0	50.70		ug/Kg		101	53 - 136	10	30
Dichlorodifluoromethane	50.0	69.88		ug/Kg		140	24 - 147	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		61 - 130
Dibromofluoromethane	82		68 - 140
Toluene-d8 (Surr)	92		50 - 130
4-Bromofluorobenzene	103		57 - 140

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209490-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-300979/1-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.17	U	33.1	4.17	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiethylamine	7.14	U	33.1	7.14	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Bis(2-chloroethyl)ether	1.64	U	33.1	1.64	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachloroethane	2.30	U	33.1	2.30	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosopyrrolidine	4.65	U	33.1	4.65	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene	2.94	U	33.1	2.94	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Isophorone	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dichlorophenol	3.85	U	33.1	3.85	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Naphthalene	1.34	U	33.1	1.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobutadiene	1.91	U	33.1	1.91	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodi-n-butylamine	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2-Methylnaphthalene	2.73	U	33.1	2.73	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1-Methylnaphthalene	1.56	U	33.1	1.56	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1,2,4,5-Tetrachlorobenzene	6.71	U	33.1	6.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorocyclopentadiene	4.59	U	33.1	4.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,6-Trichlorophenol	2.67	U	33.1	2.67	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,5-Trichlorophenol	9.96	U	33.1	9.96	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dimethyl phthalate	4.86	U	66.3	4.86	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthylene	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,6-Dinitrotoluene	2.93	U	33.1	2.93	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthene	1.43	U	33.1	1.43	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitrophenols	4.69	U	99.5	4.69	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorobenzene	3.99	U	33.1	3.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dinitrotoluene	3.59	U	33.1	3.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diethyl phthalate	8.39	U	66.3	8.39	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluorene	2.35	U	33.1	2.35	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitro-o-cresol	4.95	U	169	4.95	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiphenylamine	1.88	U	33.1	1.88	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diphenylhydrazine, 1,2-	1.61	U	33.1	1.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobenzene	1.51	U	33.1	1.51	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Atrazine	4.99	U	33.1	4.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorophenol	3.98	U	166	3.98	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Phenanthrene	4.92	U	33.1	4.92	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Anthracene	1.27	U	33.1	1.27	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibutylphthalate	2.58	U	66.3	2.58	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluoranthene	3.09	U	33.1	3.09	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzidine	8.97	U	328	8.97	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pyrene	1.82	U	33.1	1.82	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dichlorobenzidine, 3,3'-	10.1	U	33.1	10.1	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]anthracene	1.37	U	33.1	1.37	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Di (2-ethylhexyl)phthalate	5.34	U	33.1	5.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Chrysene	1.01	U	33.1	1.01	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[b]fluoranthene	1.71	U	33.1	1.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[k]fluoranthene	1.48	U	33.1	1.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]pyrene	1.60	U	33.1	1.60	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Indeno[1,2,3-cd]pyrene	3.48	U	33.1	3.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibenz(a,h)anthracene	3.61	U	33.1	3.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[g,h,i]perylene	5.04	U	33.1	5.04	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209490-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-300979/1-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	8.79	U	33.1	8.79	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Thiophene, tetrahydro-, 1,1-dioxide	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		10 - 148	08/12/20 09:49	08/17/20 08:25	1
2-Fluorobiphenyl	90		38 - 130	08/12/20 09:49	08/17/20 08:25	1
2-Fluorophenol	84		25 - 132	08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene-d5	89		10 - 155	08/12/20 09:49	08/17/20 08:25	1
Terphenyl-d14	113		53 - 134	08/12/20 09:49	08/17/20 08:25	1
Phenol-d5 (Surr)	84		27 - 130	08/12/20 09:49	08/17/20 08:25	1

Lab Sample ID: LCS 600-300979/24-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	663	603.2		ug/Kg		91	50 - 150
N-Nitrosopyrrolidine	663	640.3		ug/Kg		97	50 - 150
N-Nitrosodi-n-butylamine	663	504.6		ug/Kg		76	50 - 150
Pentachlorobenzene	663	570.9		ug/Kg		86	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	99		10 - 148
2-Fluorobiphenyl	95		38 - 130
2-Fluorophenol	87		25 - 132
Nitrobenzene-d5	91		10 - 155
Terphenyl-d14	116		53 - 134
Phenol-d5 (Surr)	89		27 - 130

Lab Sample ID: LCS 600-300979/25-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thiophene, tetrahydro-, 1,1-dioxide	1330	1839	E	ug/Kg		138	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	56		10 - 148
2-Fluorobiphenyl	85		38 - 130
2-Fluorophenol	73		25 - 132
Nitrobenzene-d5	84		10 - 155
Terphenyl-d14	109		53 - 134
Phenol-d5 (Surr)	79		27 - 130

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209490-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	663	620.7		ug/Kg		94	29 - 130
Bis(2-chloroethyl)ether	663	632.1		ug/Kg		95	40 - 130
Hexachloroethane	663	616.4		ug/Kg		93	37 - 130
Nitrobenzene	663	664.3		ug/Kg		100	42 - 130
Isophorone	663	669.6		ug/Kg		101	39 - 130
2,4-Dichlorophenol	663	685.5		ug/Kg		103	38 - 130
Naphthalene	663	645.1		ug/Kg		97	40 - 130
Hexachlorobutadiene	663	643.5		ug/Kg		97	36 - 130
2-Methylnaphthalene	663	669.4		ug/Kg		101	43 - 130
1-Methylnaphthalene	663	645.4		ug/Kg		97	43 - 130
1,2,4,5-Tetrachlorobenzene	663	672.6		ug/Kg		101	37 - 130
Hexachlorocyclopentadiene	663	594.1		ug/Kg		90	10 - 130
2,4,6-Trichlorophenol	663	691.8		ug/Kg		104	39 - 130
2,4,5-Trichlorophenol	663	714.3		ug/Kg		108	41 - 130
Dimethyl phthalate	663	732.0		ug/Kg		110	40 - 130
Acenaphthylene	663	717.5		ug/Kg		108	39 - 130
2,6-Dinitrotoluene	663	718.6		ug/Kg		108	44 - 130
Acenaphthene	663	691.9		ug/Kg		104	42 - 130
Dinitrophenols	1330	1084		ug/Kg		82	15 - 130
2,4-Dinitrotoluene	663	719.1		ug/Kg		109	45 - 130
Diethyl phthalate	663	753.6		ug/Kg		114	50 - 130
Fluorene	663	722.7		ug/Kg		109	46 - 130
Dinitro-o-cresol	1330	1237		ug/Kg		93	38 - 130
N-Nitrosodiphenylamine	663	778.1		ug/Kg		117	48 - 130
Diphenylhydrazine, 1,2-	663	789.2		ug/Kg		119	50 - 130
Hexachlorobenzene	663	733.7		ug/Kg		111	44 - 130
Atrazine	663	523.8		ug/Kg		79	10 - 140
Pentachlorophenol	1330	1166		ug/Kg		88	40 - 130
Phenanthrene	663	759.4		ug/Kg		115	51 - 130
Anthracene	663	775.6		ug/Kg		117	51 - 130
Dibutylphthalate	663	860.8		ug/Kg		130	51 - 135
Fluoranthene	663	763.4		ug/Kg		115	53 - 130
Benzidine	3310	861.3		ug/Kg		26	10 - 130
Pyrene	663	785.6		ug/Kg		119	53 - 130
Dichlorobenzidine, 3,3'-	663	456.2		ug/Kg		69	13 - 146
Benzo[a]anthracene	663	760.5		ug/Kg		115	54 - 130
Di (2-ethylhexyl)phthalate	663	842.8		ug/Kg		127	41 - 145
Chrysene	663	776.4		ug/Kg		117	52 - 130
Benzo[b]fluoranthene	663	733.1		ug/Kg		111	41 - 139
Benzo[k]fluoranthene	663	726.2		ug/Kg		110	42 - 134
Benzo[a]pyrene	663	719.7		ug/Kg		109	44 - 131
Indeno[1,2,3-cd]pyrene	663	738.7		ug/Kg		111	35 - 146
Dibenz(a,h)anthracene	663	775.0		ug/Kg		117	40 - 137
Benzo[g,h,i]perylene	663	778.5		ug/Kg		117	38 - 142
bis (2-chloroisopropyl) ether	663	638.6		ug/Kg		96	38 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	100		10 - 148

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209490-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	98		38 - 130
2-Fluorophenol	91		25 - 132
Nitrobenzene-d5	95		10 - 155
Terphenyl-d14	112		53 - 134
Phenol-d5 (Surr)	93		27 - 130

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-500724/1-A

Matrix: Solid

Analysis Batch: 501018

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 500724

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	Result	Qualifier					08/18/20 13:25	08/20/20 15:59	1
	12.0	U	66.0	12.0	ug/Kg				
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	%Recovery	Qualifier					08/18/20 13:25	08/20/20 15:59	1
	75		30 - 164						

Lab Sample ID: LCS 400-500724/2-A

Matrix: Solid

Analysis Batch: 501018

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 500724

Analyte		Spike	LCS	LCS	Unit	D	%Rec	%Rec.
Prometon		Added	Result	Qualifier			76	Limits
		333	252.5		ug/Kg			40 - 140
Surrogate	LCS	LCS	Limits					
Triphenylphosphate	%Recovery	Qualifier						
	87		30 - 164					

Lab Sample ID: MB 400-501105/1-A

Matrix: Solid

Analysis Batch: 501404

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 501105

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	Result	Qualifier					08/21/20 10:50	08/25/20 14:48	1
	12.0	U	66.0	12.0	ug/Kg				
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	%Recovery	Qualifier					08/21/20 10:50	08/25/20 14:48	1
	96		30 - 164						

Lab Sample ID: LCS 400-501105/2-A

Matrix: Solid

Analysis Batch: 501404

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 501105

Analyte		Spike	LCS	LCS	Unit	D	%Rec	%Rec.
Prometon		Added	Result	Qualifier			102	Limits
		333	340.2		ug/Kg			40 - 140
Surrogate	LCS	LCS	Limits					
Triphenylphosphate	%Recovery	Qualifier						
	101		30 - 164					

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209490-1

Method: 8270D - Pesticides by GC/MS (Continued)

Lab Sample ID: 600-209490-2 MS

Matrix: Solid

Analysis Batch: 501404

Client Sample ID: CELL19-SQUARE27-S-2-3-200807

Prep Type: Total/NA

Prep Batch: 501105

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Prometon	13.0	U	362	186.9		ug/Kg	☼	52	40 - 140
Surrogate	MS %Recovery	MS Qualifier	Limits						
Triphenylphosphate	92		30 - 164						

Lab Sample ID: 600-209490-2 MSD

Matrix: Solid

Analysis Batch: 501404

Client Sample ID: CELL19-SQUARE27-S-2-3-200807

Prep Type: Total/NA

Prep Batch: 501105

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Prometon	13.0	U	367	237.5		ug/Kg	☼	65	40 - 140	24	50
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Triphenylphosphate	65		30 - 164								

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

Lab Sample ID: MB 600-300806/1-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg		08/10/20 15:56	08/13/20 11:51	1
C28-C36	4.97	U	4.97	4.97	mg/Kg		08/10/20 15:56	08/13/20 11:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	125		60 - 140				08/10/20 15:56	08/13/20 11:51	1

Lab Sample ID: LCS 600-300806/2-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.6	70.64		mg/Kg		106	66 - 134
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
o-Terphenyl	131		60 - 140				

Lab Sample ID: LCSD 600-300806/3-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300806

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	66.6	75.11		mg/Kg		113	66 - 134	6	30

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209490-1

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

Lab Sample ID: LCSD 600-300806/3-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300806

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	131		60 - 140

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 600-300862/1-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.30	U	1.69	1.30	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, beta-	1.02	U	1.69	1.02	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, delta-	0.847	U	1.69	0.847	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, alpha-	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, gamma-	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Chlordane (technical)	23.3	U	74.7	23.3	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
DDT	1.84	U	3.29	1.84	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Dieldrin	1.38	U	3.29	1.38	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan I	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan II	1.50	U	3.29	1.50	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan sulfate	1.67	U	3.29	1.67	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin	1.52	U	3.29	1.52	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin aldehyde	1.55	U	3.29	1.55	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor epoxide	1.17	U	1.69	1.17	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Toxaphene	72.8	U	169	72.8	ug/Kg		08/11/20 08:51	08/11/20 19:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB</i> Decachlorobiphenyl	127		47 - 150	08/11/20 08:51	08/11/20 19:37	1
Tetrachloro- <i>m</i> -xylene	116		50 - 143	08/11/20 08:51	08/11/20 19:37	1

Lab Sample ID: LCS 600-300862/2-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.6	18.06		ug/Kg		109	42 - 150
Hexachlorocyclohexane, beta-	16.6	18.03		ug/Kg		108	32 - 150
Hexachlorocyclohexane, delta-	16.6	20.49		ug/Kg		123	33 - 150
Hexachlorocyclohexane, alpha-	16.6	18.14		ug/Kg		109	63 - 130
Hexachlorocyclohexane, gamma-	16.6	18.30		ug/Kg		110	36 - 150
DDT	16.6	22.31		ug/Kg		134	46 - 150
Dieldrin	16.6	18.72		ug/Kg		113	42 - 150
Endosulfan I	16.6	13.84		ug/Kg		83	37 - 150
Endosulfan II	16.6	18.94		ug/Kg		114	43 - 150
Endosulfan sulfate	16.6	20.02		ug/Kg		120	32 - 150
Endrin	16.6	20.38		ug/Kg		123	41 - 150
Endrin aldehyde	16.6	22.48		ug/Kg		135	42 - 150
Heptachlor	16.6	18.17		ug/Kg		109	35 - 150

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209490-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 600-300862/2-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor epoxide	16.6	17.12		ug/Kg		103	42 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	76		47 - 150
Tetrachloro-m-xylene	74		50 - 143

Lab Sample ID: LCSD 600-300862/3-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Aldrin	16.6	17.36		ug/Kg		104	42 - 150	4	20
Hexachlorocyclohexane, beta-	16.6	18.09		ug/Kg		109	32 - 150	0	20
Hexachlorocyclohexane, delta-	16.6	20.47		ug/Kg		123	33 - 150	0	20
Hexachlorocyclohexane, alpha-	16.6	16.93		ug/Kg		102	63 - 130	7	20
Hexachlorocyclohexane, gamma-DDT	16.6	17.29		ug/Kg		104	36 - 150	6	20
DDT	16.6	22.58		ug/Kg		136	46 - 150	1	20
Dieldrin	16.6	18.96		ug/Kg		114	42 - 150	1	20
Endosulfan I	16.6	14.22		ug/Kg		86	37 - 150	3	20
Endosulfan II	16.6	18.23		ug/Kg		110	43 - 150	4	20
Endosulfan sulfate	16.6	20.67		ug/Kg		124	32 - 150	3	20
Endrin	16.6	21.64		ug/Kg		130	41 - 150	6	20
Endrin aldehyde	16.6	23.30		ug/Kg		140	42 - 150	4	20
Heptachlor	16.6	16.75		ug/Kg		101	35 - 150	8	20
Heptachlor epoxide	16.6	16.99		ug/Kg		102	42 - 150	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	104		47 - 150
Tetrachloro-m-xylene	89		50 - 143

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 600-300862/1-A

Matrix: Solid

Analysis Batch: 300977

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00159	U	0.0166	0.00159	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1221	0.00860	U	0.0166	0.00860	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1232	0.00667	U	0.0166	0.00667	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1242	0.00124	U	0.0166	0.00124	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1248	0.00248	U	0.0166	0.00248	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1254	0.00220	U	0.0166	0.00220	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1260	0.0134	U	0.0166	0.0134	mg/Kg		08/11/20 08:51	08/12/20 12:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	117		10 - 150	08/11/20 08:51	08/12/20 12:54	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209490-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 600-300862/1-A

Matrix: Solid

Analysis Batch: 300977

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300862

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	165	X	10 - 150	08/11/20 08:51	08/12/20 12:54	1

Lab Sample ID: LCS 600-300862/4-A

Matrix: Solid

Analysis Batch: 300977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300862

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
PCB-1016			0.166	0.1532		mg/Kg		92	42 - 130		
PCB-1260			0.166	0.1225		mg/Kg		74	59 - 135		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
Tetrachloro-m-xylene	85		10 - 150								
DCB Decachlorobiphenyl	104		10 - 150								

Lab Sample ID: LCSD 600-300862/5-A

Matrix: Solid

Analysis Batch: 300977

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300862

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016			0.166	0.1574		mg/Kg		95	42 - 130	3	30
PCB-1260			0.166	0.1241		mg/Kg		75	59 - 135	1	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
Tetrachloro-m-xylene	78		10 - 150								
DCB Decachlorobiphenyl	101		10 - 150								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/11/20 11:50	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/11/20 11:50	1

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/12/20 02:57	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/12/20 02:57	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209490-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	98.87		mg/Kg		99	90 - 110
Nitrite as N	100	101.4		mg/Kg		101	90 - 110

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	91.93		mg/Kg		92	90 - 110
Nitrite as N	100	100.5		mg/Kg		100	90 - 110

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			08/11/20 11:50	1
Fluoride	0.601	U	2.00	0.601	mg/Kg			08/11/20 11:50	1
Sulfate	0.957	U	5.00	0.957	mg/Kg			08/11/20 11:50	1

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	193.0		mg/Kg		97	90 - 110
Fluoride	75.0	82.00		mg/Kg		109	90 - 110
Sulfate	200	193.9		mg/Kg		97	90 - 110

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-505436/1-A

Matrix: Solid

Analysis Batch: 505596

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505436

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		08/12/20 15:04	08/13/20 16:41	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		08/12/20 15:04	08/13/20 16:41	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		08/12/20 15:04	08/13/20 16:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	102		83 - 122	08/12/20 15:04	08/13/20 16:41	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209490-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: LCS 280-505436/2-A

Matrix: Solid

Analysis Batch: 505596

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505436

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	1.051		mg/Kg		105	80 - 124
2,4,6-Trinitrotoluene	1.00	1.050		mg/Kg		105	80 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dinitrobenzene	106		83 - 122				

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: MB 280-505376/1-A

Matrix: Solid

Analysis Batch: 506026

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		08/12/20 11:00	08/20/20 14:31	1

Lab Sample ID: LCS 280-505376/2-A

Matrix: Solid

Analysis Batch: 506026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5330		ug/Kg		107	80 - 120

Lab Sample ID: DLCK 280-506024/12

Matrix: Solid

Analysis Batch: 506024

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	0.04997	J	ug/L		100	70 - 130

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-500633/14

Matrix: Solid

Analysis Batch: 500633

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	0.4920	J	ug/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4537	J	ug/L		100	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		92	70 - 130
Surrogate	DLCK %Recovery	DLCK Qualifier	Limits				
13C8 PFOA	108		57 - 153				
13C8 PFOS	91		70 - 130				

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209490-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 280-505864/1-A

Matrix: Solid

Analysis Batch: 506717

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505864

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		08/17/20 14:49	08/24/20 11:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		08/17/20 14:49	08/24/20 11:46	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		08/17/20 14:49	08/24/20 11:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	08/17/20 14:49	08/24/20 11:46	1
13C8 PFOS	94		70 - 130	08/17/20 14:49	08/24/20 11:46	1

Lab Sample ID: LCS 280-505864/2-A

Matrix: Solid

Analysis Batch: 506717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	18.81		ug/Kg		94	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	16.81		ug/Kg		92	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	18.69		ug/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
13C8 PFOA	101		57 - 153
13C8 PFOS	98		70 - 130

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-481632/1-A ^2

Matrix: Solid

Analysis Batch: 481844

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 481632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0729	U	0.195	0.0729	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Arsenic	0.389	U	0.973	0.389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Barium	0.486	U	1.95	0.486	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Beryllium	0.0389	U	0.0973	0.0389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Cadmium	0.0233	U	0.0486	0.0233	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Chromium	0.438	U	0.973	0.438	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Iron	5.84	U	11.7	5.84	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Copper	0.389	U	0.973	0.389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Manganese	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Lead	0.122	U	0.292	0.122	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Antimony	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Selenium	0.311	U	0.486	0.311	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Thallium	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Zinc	1.95	U	4.86	1.95	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Uranium	0.0389	U	0.0973	0.0389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209490-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 160-481632/3-A ^10

Matrix: Solid

Analysis Batch: 481844

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 481632

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	40.3	37.10		mg/Kg		92.1	69.2 - 130.8
Arsenic	95.5	92.41		mg/Kg		96.8	70.1 - 129.8
Barium	300	273.8		mg/Kg		91.3	75.0 - 125.0
Beryllium	103	99.40		mg/Kg		96.5	75.0 - 125.2
Cadmium	135	134.8		mg/Kg		99.8	125. - 74.82
Chromium	147	137.0		mg/Kg		93.2	70.1 - 129.9
Iron	14400	11610		mg/Kg		80.6	35.8 - 164.6
Copper	150	155.4		mg/Kg		103.6	75.3 - 125.3
Manganese	677	697.6		mg/Kg		103.0	78.1 - 122.0
Lead	92.3	89.28		mg/Kg		96.7	70.0 - 130.0
Antimony	120	60.58		mg/Kg		50.5	19.0 - 251.7
Selenium	42.0	41.47		mg/Kg		98.7	55.7 - 144.5
Thallium	83.1	83.63		mg/Kg		100.6	65.3 - 134.8
Zinc	369	375.6		mg/Kg		101.8	69.9 - 130.1
Uranium	70.1	67.82		mg/Kg		96.8	64.9 - 135.0

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 600-302704/7-A

Matrix: Solid

Analysis Batch: 302818

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 302704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00341	U	0.0162	0.00341	mg/Kg		09/02/20 13:16	09/03/20 13:22	1

Lab Sample ID: LCS 600-302704/8-A

Matrix: Solid

Analysis Batch: 302818

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 302704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.2549		mg/Kg		110	70 - 130

Lab Sample ID: MB 600-302874/7-A

Matrix: Solid

Analysis Batch: 302917

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 302874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00336	U	0.0159	0.00336	mg/Kg		09/04/20 10:03	09/04/20 14:07	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209490-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 600-302874/8-A

Matrix: Solid

Analysis Batch: 302917

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 302874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.2383		mg/Kg		103	70 - 130

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: LB 600-301322/1-A

Matrix: Solid

Analysis Batch: 301367

Client Sample ID: Method Blank

Prep Type: 7 Day Leach

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			08/17/20 11:57	1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 600-301738/1-A

Matrix: Solid

Analysis Batch: 301760

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00150	U	0.0100	0.00150	mg/Kg		08/20/20 13:55	08/20/20 17:40	1

Lab Sample ID: LCS 600-301738/2-A

Matrix: Solid

Analysis Batch: 301760

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.1007		mg/Kg		101	90 - 110

Lab Sample ID: 600-209490-3 MS

Matrix: Solid

Analysis Batch: 301760

Client Sample ID: CELL19-SQUARE43-S-2-3-200807

Prep Type: Total/NA

Prep Batch: 301738

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0204	U	1.31	0.1758	N1	mg/Kg	✱	13	90 - 110

Lab Sample ID: 600-209490-3 MSD

Matrix: Solid

Analysis Batch: 301760

Client Sample ID: CELL19-SQUARE43-S-2-3-200807

Prep Type: Total/NA

Prep Batch: 301738

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Cyanide, Total	0.0204	U	1.28	0.1632	N1	mg/Kg	✱	13	90 - 110	7	20

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation)

Lab Sample ID: MB 600-301825/1-A

Matrix: Solid

Analysis Batch: 301847

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.00419	U	0.00500	0.00419	mg/Kg		08/21/20 12:16	08/21/20 13:43	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209490-1

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation) (Continued)

Lab Sample ID: LCS 600-301825/2-A

Matrix: Solid

Analysis Batch: 301847

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.100	0.09383		mg/Kg		94	90 - 110

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-479639/1-A

Matrix: Solid

Analysis Batch: 481714

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 479639

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05851	U	0.184	0.184	1.00	0.317	pCi/g	08/17/20 17:22	09/08/20 10:45	1
Radium-228	0.1048	U	0.195	0.196		0.306	pCi/g	08/17/20 17:22	09/08/20 10:45	1
Combined Radium 226 + 228	0.1633	U	0.268	0.269		0.317	pCi/g	08/17/20 17:22	09/08/20 10:45	1

Lab Sample ID: LCS 160-479639/2-A

Matrix: Solid

Analysis Batch: 481712

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 479639

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.5	99.34		10.4		0.855	pCi/g	103	87 - 116
Cesium-137	26.9	24.88		2.65		0.174	pCi/g	93	87 - 120
Cobalt-60	9.80	8.970		0.943		0.105	pCi/g	92	87 - 115

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209490-1

GC/MS VOA

Prep Batch: 300996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	5030B	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	5030B	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	5030B	

Analysis Batch: 301050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	8260B	300996
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8260B	300996
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	8260B	300996
MB 600-301050/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-301050/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-301050/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 300979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	3546	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3546	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300979/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 301300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	8270C LL	300979
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8270C LL	300979
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	8270C LL	300979
MB 600-300979/1-A	Method Blank	Total/NA	Solid	8270C LL	300979
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979

Prep Batch: 500724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	3546	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3546	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	3546	
MB 400-500724/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-500724/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 501018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	8270D	500724
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8270D	500724
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	8270D	500724
MB 400-500724/1-A	Method Blank	Total/NA	Solid	8270D	500724
LCS 400-500724/2-A	Lab Control Sample	Total/NA	Solid	8270D	500724

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209490-1

GC/MS Semi VOA

Prep Batch: 501105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-501105/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-501105/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-209490-2 MS	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3546	
600-209490-2 MSD	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3546	

Analysis Batch: 501404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-501105/1-A	Method Blank	Total/NA	Solid	8270D	501105
LCS 400-501105/2-A	Lab Control Sample	Total/NA	Solid	8270D	501105
600-209490-2 MS	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8270D	501105
600-209490-2 MSD	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8270D	501105

Prep Batch: 501756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-2 - RERA	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3546	
MB 400-501756/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-501756/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-209490-2 MS	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3546	
600-209490-2 MSD	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3546	

Analysis Batch: 502373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-2 - RERA	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8270D	501756
MB 400-501756/1-A	Method Blank	Total/NA	Solid	8270D	501756
LCS 400-501756/2-A	Lab Control Sample	Total/NA	Solid	8270D	501756
600-209490-2 MS	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8270D	501756
600-209490-2 MSD	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8270D	501756

GC VOA

Prep Batch: 300717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	5030B	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	5030B	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	5030B	

Analysis Batch: 301053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	8015B	300717
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8015B	300717
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	8015B	300717

GC Semi VOA

Prep Batch: 300806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	3546	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3546	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300806/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209490-1

Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Prep Batch: 300862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	3546	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3546	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300862/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300862/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
LCSD 600-300862/5-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 300913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	8081A	300862
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8081A	300862
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	8081A	300862
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8081A	300862
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	8081A	300862
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	300862

Analysis Batch: 300977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	8082	300862
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8082	300862
LCS 600-300862/4-A	Lab Control Sample	Total/NA	Solid	8082	300862
LCSD 600-300862/5-A	Lab Control Sample Dup	Total/NA	Solid	8082	300862

Analysis Batch: 301085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	8015B	300806
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8015B	300806
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	8015B	300806
MB 600-300806/1-A	Method Blank	Total/NA	Solid	8015B	300806
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	8015B	300806
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300806

Analysis Batch: 301103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8082	300862
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	8082	300862

HPLC/IC

Analysis Batch: 300880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Soluble	Solid	300.0	300916
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Soluble	Solid	300.0	300916
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209490-1

HPLC/IC

Analysis Batch: 300881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Soluble	Solid	300.0	300916
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Soluble	Solid	300.0	300916
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

Leach Batch: 300916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Soluble	Solid	DI Leach	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Soluble	Solid	DI Leach	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Soluble	Solid	DI Leach	
MB 600-300916/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

ISM Prep Batch: 505294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	Increment, prep	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	Increment, prep	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	Increment, prep	

Prep Batch: 505436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	8330B	505294
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8330B	505294
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	8330B	505294
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 505596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	8330B	505436
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8330B	505436
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	8330B	505436
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	505436
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	505436

LCMS

Analysis Batch: 500633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-500633/14	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Prep Batch: 505376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	6860	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	6860	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	6860	
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	

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QC Association Summary

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

Job ID: 600-209490-1

LCMS

Prep Batch: 505864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	PFC leach	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	PFC leach	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	PFC leach	
MB 280-505864/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 506024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-506024/12	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 506026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	6860	505376
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	6860	505376
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	6860	505376
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	505376
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	505376

Analysis Batch: 506717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
MB 280-505864/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	505864
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	505864

Metals

Prep Batch: 302704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	7471B	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	7471B	
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 302818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	7471B	302704
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	7471B	302704
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	302704
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	302704

Prep Batch: 302874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	7471B	
MB 600-302874/7-A	Method Blank	Total/NA	Solid	7471B	
LCS 600-302874/8-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 302917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	7471B	302874

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QC Association Summary

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

Job ID: 600-209490-1

Metals (Continued)

Analysis Batch: 302917 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-302874/7-A	Method Blank	Total/NA	Solid	7471B	302874
LCS 600-302874/8-A	Lab Control Sample	Total/NA	Solid	7471B	302874

Prep Batch: 481632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	3050B	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3050B	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	3050B	
MB 160-481632/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCSSRM 160-481632/3-A ^1	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 481844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	6020	481632
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	6020	481632
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	6020	481632
MB 160-481632/1-A ^2	Method Blank	Total/NA	Solid	6020	481632
LCSSRM 160-481632/3-A ^1	Lab Control Sample	Total/NA	Solid	6020	481632

General Chemistry

Analysis Batch: 300956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	2540B	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	2540B	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	2540B	

Leach Batch: 301322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	7 Day Leach	Solid	335.521	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	7 Day Leach	Solid	335.521	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	7 Day Leach	Solid	335.521	
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	335.521	

Analysis Batch: 301367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
600-209490-2	CELL19-SQUARE27-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
600-209490-3	CELL19-SQUARE43-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	2540 C-1997	301322

Prep Batch: 301738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	9012B	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	9012B	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	9012B	
MB 600-301738/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 600-301738/2-A	Lab Control Sample	Total/NA	Solid	9012B	
600-209490-3 MS	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	9012B	
600-209490-3 MSD	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	9012B	

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209490-1

Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Analysis Batch: 301760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	9012B	301738
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	9012B	301738
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	9012B	301738
MB 600-301738/1-A	Method Blank	Total/NA	Solid	9012B	301738
LCS 600-301738/2-A	Lab Control Sample	Total/NA	Solid	9012B	301738
600-209490-3 MS	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	9012B	301738
600-209490-3 MSD	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	9012B	301738

Prep Batch: 301825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
MB 600-301825/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 600-301825/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 301847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	9066	301825
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	9066	301825
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	9066	301825
MB 600-301825/1-A	Method Blank	Total/NA	Solid	9066	301825
LCS 600-301825/2-A	Lab Control Sample	Total/NA	Solid	9066	301825

Analysis Batch: 302075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	9045D	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	9045D	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	9045D	
LCS 600-302075/1	Lab Control Sample	Total/NA	Solid	9045D	

Rad

Leach Batch: 479217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	Dry and Grind	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	Dry and Grind	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	Dry and Grind	

Prep Batch: 479639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479217
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479217
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479217
MB 160-479639/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-479639/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE99-S-2-3-200807

Lab Sample ID: 600-209490-1

Date Collected: 08/07/20 09:40

Matrix: Solid

Date Received: 08/08/20 10:05

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					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.14 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/14/20 00:44	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.02 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			289.4 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481712	09/08/20 17:34	SCB	TAL SL

Client Sample ID: CELL19-SQUARE99-S-2-3-200807

Lab Sample ID: 600-209490-1

Date Collected: 08/07/20 09:40

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.79 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 15:10	WS1	TAL HOU
Total/NA	Prep	3546			15.02 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 14:26	TTD	TAL HOU
Total/NA	Prep	3546			15.35 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 20:59	PP1	TAL PEN
Total/NA	Prep	5030B			9.91 g	10 mL	300717	08/08/20 15:03	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 14:32	WS1	TAL HOU
Total/NA	Prep	3546			10.09 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 19:12	RJV	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/12/20 00:33	JAL	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			300977	08/12/20 18:12	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/12/20 01:14	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/12/20 01:14	W1N	TAL HOU
Total/NA	Prep	6860			10.32 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 16:30	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.4 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 14:50	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5740 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 19:58	DAS	TAL SL
Total/NA	Prep	7471B			0.60 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 14:16	DCL	TAL HOU
Total/NA	Prep	9012B			0.530 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:52	AML	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE99-S-2-3-200807

Lab Sample ID: 600-209490-1

Date Collected: 08/07/20 09:40

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/Phenol			0.503 g	50.0 mL	301825	08/21/20 12:16	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301847	08/21/20 13:52	AML	TAL HOU

Client Sample ID: CELL19-SQUARE27-S-2-3-200807

Lab Sample ID: 600-209490-2

Date Collected: 08/07/20 10:26

Matrix: Solid

Date Received: 08/08/20 10:05

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					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.34 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/14/20 01:07	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.02 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			310.2 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481714	09/08/20 17:37	SCB	TAL SL

Client Sample ID: CELL19-SQUARE27-S-2-3-200807

Lab Sample ID: 600-209490-2

Date Collected: 08/07/20 10:26

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 15:34	WS1	TAL HOU
Total/NA	Prep	3546			15.09 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 14:50	TTD	TAL HOU
Total/NA	Prep	3546			15.37 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 21:24	PP1	TAL PEN
Total/NA	Prep	3546	RERA		15.25 g	1 mL	501756	08/28/20 07:50	SHB	TAL PEN
Total/NA	Analysis	8270D	RERA	1			502373	09/03/20 10:59	VC1	TAL PEN
Total/NA	Prep	5030B			9.95 g	10 mL	300717	08/08/20 15:03	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 14:57	WS1	TAL HOU
Total/NA	Prep	3546			10.02 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 19:45	RJV	TAL HOU
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/12/20 00:58	JAL	TAL HOU
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			301103	08/13/20 11:39	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/12/20 01:35	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/12/20 01:35	W1N	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE27-S-2-3-200807

Lab Sample ID: 600-209490-2

Date Collected: 08/07/20 10:26

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	6860			10.20 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 16:35	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.78 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 14:59	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5239 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 20:01	DAS	TAL SL
Total/NA	Prep	7471B			0.62 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 14:18	DCL	TAL HOU
Total/NA	Prep	9012B			0.508 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:53	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.503 g	50.0 mL	301825	08/21/20 12:16	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301847	08/21/20 13:53	AML	TAL HOU

Client Sample ID: CELL19-SQUARE43-S-2-3-200807

Lab Sample ID: 600-209490-3

Date Collected: 08/07/20 10:58

Matrix: Solid

Date Received: 08/08/20 10:05

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					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.2 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/14/20 01:30	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.04 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			313.1 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481722	09/08/20 17:37	SCB	TAL SL

Client Sample ID: CELL19-SQUARE43-S-2-3-200807

Lab Sample ID: 600-209490-3

Date Collected: 08/07/20 10:58

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.69 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 15:58	WS1	TAL HOU
Total/NA	Prep	3546			15.02 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 15:15	TTD	TAL HOU
Total/NA	Prep	3546			15.07 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 21:49	PP1	TAL PEN
Total/NA	Prep	5030B			9.64 g	10 mL	300717	08/13/20 07:54	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 15:46	WS1	TAL HOU
Total/NA	Prep	3546			10.04 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 20:18	RJV	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE43-S-2-3-200807

Lab Sample ID: 600-209490-3

Date Collected: 08/07/20 10:58

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/12/20 01:22	JAL	TAL HOU
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			301103	08/13/20 12:05	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/12/20 01:55	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/12/20 01:55	W1N	TAL HOU
Total/NA	Prep	6860			10.64 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 16:40	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.56 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 15:08	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5175 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 20:05	DAS	TAL SL
Total/NA	Prep	7471B			0.66 g	50 mL	302874	09/04/20 10:03	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302917	09/04/20 14:53	SOT	TAL HOU
Total/NA	Prep	9012B			0.507 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:54	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.501 g	50.0 mL	301825	08/21/20 12:16	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301847	08/21/20 13:54	AML	TAL HOU

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

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

Job ID: 600-209490-1

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-20-26	10-31-20
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
2540 C-1997		Solid	Total Dissolved Solids
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	C28-C36
8260B	5030B	Solid	1,3-Dichloropropene, Total
8270C LL	3546	Solid	1-Methylnaphthalene
8270C LL	3546	Solid	Atrazine
8270C LL	3546	Solid	Thiophene, tetrahydro-, 1,1-dioxide
9045D		Solid	pH

Laboratory: Eurofins TestAmerica, Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-21
Alaska (UST)	State	18-001	02-08-21
Arizona	State	AZ0713	12-20-20
Arkansas DEQ	State	19-047-0	06-01-21
California	State	2513	01-08-21
Connecticut	State	PH-0686	09-30-20
Florida	NELAP	E87667-57	07-01-21
Georgia	State	4025-011	01-09-21
Illinois	NELAP	2000172019-1	04-30-21
Iowa	State	IA#370	12-01-20
Kansas	NELAP	E-10166	04-30-21
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-21
Maine	State	2019011 (231)	03-03-21
Minnesota	NELAP	1788752	12-31-20
Nevada	State	CO000262020-1	07-31-21
New Hampshire	NELAP	205319	04-29-21
New Jersey	NELAP	190002	06-30-21
New York	NELAP	59923	04-01-21
North Carolina (WW/SW)	State	358	12-31-20
North Dakota	State	R-034	01-08-21
Oklahoma	State	2018-006	08-31-20
Oregon	NELAP	4025-011	01-08-21
Pennsylvania	NELAP	013	07-31-21
South Carolina	State	72002001	01-08-21
Texas	NELAP	T104704183-19-17	09-30-20
US Fish & Wildlife	US Federal Programs	058448	08-01-21
USDA	US Federal Programs	P330-18-00099	03-26-21
Utah	NELAP	QUAN5	06-30-13 *

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

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

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

Job ID: 600-209490-1

Laboratory: Eurofins TestAmerica, Denver (Continued)

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

Authority	Program	Identification Number	Expiration Date
Utah	NELAP	CO000262019-11	07-31-21
Virginia	NELAP	10490	06-14-21
Washington	State	C583-19	08-03-21
West Virginia DEP	State	354	11-30-20
Wisconsin	State	999615430	08-31-20
Wyoming (UST)	A2LA	2907.01	10-31-21

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-02-21
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-21
Kansas	NELAP	E-10253	10-31-20
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-21
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	09-30-20

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209490-1

Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, 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	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	09-13-20
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	09-14-20
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-20

Eurofins TestAmerica, Houston

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record



Environment Testing
America

Client Information		Sampler		Lab PM		Carrier Tracking (No.)		GOC No.												
Client Contact: Alison Schaffer		J. Steinmann		Kudchadkar, Sachin G				600-78203-21039.1												
Company: ARCADIS U.S., Inc.		Phone: 619 851 8992		E-Mail: Sachin.Kudchadkar@Eurofins.com				Page 1 of 1												
Address: 630 Plaza Drive Suite 100 City: Highlands Ranch State Zip: CO, 80129-2377 Phone: 303-710-7537 (Tel) Email: Alison.Schaffer@arcadis.com		Due Date Requested: TAT Requested (days): 54d FO #: WO #: Project #: 60012538 SSOW#:		Analysis Requested		Total Number of containers		Preservation Codes:												
Site: Lindhart								A - HCL B - NaOH C - AsNaO2 D - Zn Acetate E - Nitric Acid F - NaHSO4 G - MeOH H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: 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)												
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=organic)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	826B - Volatiles	870C - Semivolatiles/ 8081 Pesticides/ 8082 PCB	6860 - Perchlorate-Denver - soil jar 4 oz	830B - Denver - soil jar 4 oz	830B - Denver - plastic 16 oz jar	8270D - AgChem - Pensacola - soil jar 4 oz	2540C - Calcd - Local Method/ Moisture/ pH 9045	8015B - GRO	8015 - DRO/GRO	GA-01 - R-ra - Rad 226/228 - St Louis - 2 plastic jars 16	9066 - Phenolics/ 9012 Cyanide	300 - Nitrate, Chloride, Sulfate, Fluoride	6020/7471 - St Louis - soil jar 4 oz	Special Instructions/Note:
Cell 19 - Square 99-S-2-3-200807	8/07/20	0940	G	Solid																600-209490 Chain of Custody
Cell 19 - Square 27-S-2-3-200807	8/07/20	1026	G	Solid																
Cell 19 - Square 43-S-2-3-200807	8/07/20	1058	G	Solid																
Temp blank				Solid																
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological																				
Deliverable Requested 1, II, III, IV, Other (specify): 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:																				
Method of Shipment:																				
Date/Time:																				
Received by: <i>Aradis</i> Company: <i>Aradis</i> Date/Time: <i>8/8/20 1005</i> Company: <i>E.T.A.</i>																				
Relinquished by: <i>Aradis</i> Company: <i>Aradis</i> Date/Time: <i>8/8/20 1005</i> Company: <i>E.T.A.</i>																				
Relinquished by: <i>Aradis</i> Company: <i>Aradis</i> Date/Time: <i>8/8/20 1005</i> Company: <i>E.T.A.</i>																				
Custody Seals Intact. ☐ Yes ☐ No																				
Cooler Temperature(s) °C and Other Remarks:																				

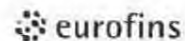
Ver: 01/16/2019

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Eurofins TestAmerica Houston

Loc: 600

209490

Environment Testing
TestAmerica

Sample Receipt Checklist

23 AUG 6 10:05

JOB NUMBER: _____

Date/Time Received: _____

CLIENT: _____

UNPACKED BY: JP

CARRIER/DRIVER: _____

Custody Seal Present: ☒ YES ☐ NONumber of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
<u>2624</u>	<u>X / N</u>	<u>Y / N</u>	<u>2.5</u>	<u>680</u>	<u>+0.1</u>	<u>2.6</u>
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒ YES ☐ NOLABORATORY PRESERVATION OF SAMPLES REQUIRED: ☒ NO ☐ YESBase samples are >pH 12: ☐ YES ☐ NOAcid preserved are <pH 2: ☐ YES ☐ NOTX1005 samples frozen upon receipt: ☐ YES

DATE & TIME PUT IN FREEZER: _____

pH paper Lot # _____

VOA headspace acceptable (5-6mm): ☐ YES ☐ NO ☒ NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

☒ YES ☐ NO

COMMENTS:

8/8/20

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record



Environment Testing
America



Client Information (Sub Contract Lab)		Lab PM: Kuchadkar, Sachin G		Carrier Tracking No(s): 600-45922.1									
Client Contact: Shipping/Receiving		E-Mail: Sachin.Kuchadkar@Eurofinset.com		Page: Page 1 of 1									
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-209490-1									
Address: 13715 Rider Trail North,		Due Date Requested: 8/20/2020		Preservation Codes:									
City: Earth City		TAT Requested (days):		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:									
State, Zip: MO, 63045		PO #:		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)									
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:											
Email:		Project #:											
Project Name: Chevron - Jal Land Farm Soils		60012538											
Site:		SSOW#:											
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefl, BT=Thau, AR=AR)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020/3050B, 2% (MOD) Copy Analyses	7471A/7471A Prep	GA_01 R.RaDry-Grind (MOD) Radium-226/228	Analysis Requested	Preservation Codes	Total Number of Containers	Special Instructions/Note:
CELL 19-SQUARE99-S-2-3-200807 (600-209490-1)	8/7/20	09:40 Central	Solid	Solid	X	X	X	X	X			3	
CELL 19-SQUARE27-S-2-3-200807 (600-209490-2)	8/7/20	10:26 Central	Solid	Solid	X	X	X	X	X			3	
CELL 19-SQUARE43-S-2-3-200807 (600-209490-3)	8/7/20	10:58 Central	Solid	Solid	X	X	X	X	X			3	
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.													
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: 8/10/20 Time: 13:00 Company: EFA Relinquished by: Date: 8/10/20 Time: 13:00 Company: EFA Relinquished by: Date: 8/11/20 Time: 09:18 Company: EFA Relinquished by: Date: 8/11/20 Time: 09:18 Company: EFA Custody Seal No.: ☐ Yes ☐ No Cooler Temperature(s) °C and Other Remarks:													

Ver: 01/16/2019

Chain of Custody Record

 eurofins

Environment Testing
America

Client Information (Sub Contract Lab)			Sampler	Kudchadkar, Sachin G	COC No.	600-45917.1						
Contact Information			E-Mail:	Sachin.Kudchadkar@Eurofins.com	State of Origin:	Texas						
Company Address			Accreditations Required (See note):		Job #:	600-209490-1						
TestAmerica Laboratories, Inc. Address: 4955 Yarrow Street, City: Arvada State Zip: CO, 80002			NELAP - Texas									
Date Requested: 8/26/2020			Analysis Requested									
TAT Requested (days):												
PO #:												
WO #:												
Project #: 60012538												
SOW#:												
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (G=comp, G=grab)	Matrix (Wet/Dry, Solid/Liquid, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6860/6860 Prep Standard 6860 List	PFC/PFO Leach (MOD) Custom List	833B/ISM_AC (MOD) DDB Sublist	Total Number of Containers	Special Instructions/Note:
CELL 19-SQUARE99-S-2-3-200807 (600-209490-1)		8/7/20	09:40 Central	G=grab	Solid	X	X	X	X	X	3	
CELL 19-SQUARE27-S-2-3-200807 (600-209490-2)		8/7/20	10:26 Central	G=grab	Solid	X	X	X	X	X	3	
CELL 19-SQUARE43-S-2-3-200807 (600-209490-3)		8/7/20	10:58 Central	G=grab	Solid	X	X	X	X	X	3	
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.												
Possible Hazard Identification												
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)												
Primary Deliverable Rank: 2												
Empty Kit Relinquished by: _____ Relinquished by: <i>Sachin Jours</i> Date: 8/10/20 13:00 Company: EPA Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____												
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: _____ Date: _____ Received by: <i>D An</i> Date/Time: 8-11-20 0915 Company: ETADen Received by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____												
Custody Seal Intact: A Yes A No Custody Seal No.: _____ Cooling Temperature(s) °C and Other Remarks: 5°C, 1.9, 18.10, -0.1 DS 8-11-20												

5310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record



Environment Testing
America

[illegible]

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-209490-1

Login Number: 209490

List Source: Eurofins TestAmerica, Houston

List Number: 1

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	2.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-209490-1

Login Number: 209490

List Number: 3

Creator: Schade, Daniel B

List Source: Eurofins TestAmerica, Denver

List Creation: 08/11/20 02:31 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.	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").	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: 600-209490-1

Login Number: 209490

List Number: 4

Creator: Whitley, Adrian

List Source: Eurofins TestAmerica, Pensacola

List Creation: 08/12/20 05:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1075430
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.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	6.5°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: 600-209490-1

Login Number: 209490

List Number: 2

Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/11/20 01:13 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	



Environment Testing
America

ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-209491-1

Client Project/Site: Chevron - Jal Land Farm Soils

For:

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

Attn: Alison Schaffer

Authorized for release by:
9/21/2020 4:39:33 PM

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

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-209491-1

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Case Narrative

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

Job ID: 600-209491-1

Job ID: 600-209491-1**Laboratory: Eurofins TestAmerica, Houston****Narrative**
Job Narrative
600-209491-1
Comments

No additional comments.

Receipt

The samples were received on 8/8/2020 10:05 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0° C.

GC/MS VOA

Method 8260B: The method blank for analytical batch 600-301050 contained Chloroform 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.

GC/MS Semi VOA

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301300 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301300/3).

Method 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 600-300979 and analytical batch 600-301300 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301390 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 600-301390/2).

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301390 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301390/3).

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

GC VOA

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

GC Semi VOA

Methods 8081A, 8081B: The continuing calibration verification (CCV) associated with batch 600-300913 recovered above the upper control limit for 4,4-DDD(25.2%), 4,4-DDE(21.2%), and 4,4-DDT(17.7%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 600-300913/5).

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

RAD

Methods 901.1, GA-01-R: Gamma Prep Batch 160-479639

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: 600-209491-1

Job ID: 600-209491-1 (Continued)**Laboratory: Eurofins TestAmerica, Houston (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.

CELL21-SQUARE155-S-2-3-200807 (600-209491-1), CELL21-SQUARE208-S-2-3-200807 (600-209491-2), (600-209486-E-1-B) and (600-209486-E-1-C DU)

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

Metals

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-481632 and analytical batch 160-481844 were outside control limits for Antimony. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (600-209488-G-1-B MS ^20) and (600-209488-G-1-C MSD ^20)

Method 6020: Due to the high concentration of Barium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-481632 and analytical batch 160-481844 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (600-209488-G-1-B MS ^20) and (600-209488-G-1-C MSD ^20)

Method 6020: preparation batch 160-481632 and analytical batch 160-481844

The post digestion spike % recovery for Barium was outside of control limits due to high concentrations of target analytes in the native sample (600-209488-G-1-A PDS ^20)

Method 6020: preparation batch 160-481632 and analytical batch 160-481844

The following samples were diluted due to the abundance of non-target analytes: CELL21-SQUARE155-S-2-3-200807 (600-209491-1) and CELL21-SQUARE208-S-2-3-200807 (600-209491-2). Elevated reporting limits (RLs) are provided.

Method 6020: analytical batch 160-481844

The internal standard Li-6 was outside QC limits in the CCV. All analytes were within acceptable limits, showing that there was no bias. Original results will be reported. (CCV 160-481844/40)

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.

Case Narrative

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

Job ID: 600-209491-1

Job ID: 600-209491-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

General Chemistry

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

Industrial Hygiene

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

Organic Prep

Methods Increment, prep: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client/PM request, the subsampling procedure was not performed on these samples.

CELL21-SQUARE155-S-2-3-200807 (600-209491-1) and CELL21-SQUARE208-S-2-3-200807 (600-209491-2)

In preparation batch 280-505294 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: CELL21-SQUARE155-S-2-3-200807 (600-209491-1) and CELL21-SQUARE208-S-2-3-200807 (600-209491-2). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet.

In preparation batch 280-505294 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B

Method PFC leach: The following samples were full of rocks and gravel. Aliquoting 10g of soil material was difficult.

CELL21-SQUARE155-S-2-3-200807 (600-209491-1) and CELL21-SQUARE208-S-2-3-200807 (600-209491-2)

preparation batch 280-505864

PFC_Leach / PFC

Method PFC leach: The following samples required 2mL of 2.4M HCl to bring the pH below 7. CELL21-SQUARE155-S-2-3-200807 (600-209491-1) and CELL21-SQUARE208-S-2-3-200807 (600-209491-2)

preparation batch 280-505864

PFC_Leach / PFC

Method 3546: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: CELL21-SQUARE155-S-2-3-200807 (600-209491-1) and CELL21-SQUARE208-S-2-3-200807 (600-209491-2). The reporting limits (RLs) have been adjusted proportionately.

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

Method Summary

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

Job ID: 600-209491-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
8270D	Pesticides by GC/MS	SW846	TAL PEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
8081A	Organochlorine Pesticides (GC)	SW846	TAL HOU
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL HOU
2540 C-1997	Total Dissolved Solids (Dried at 180 °C)	SM	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
9012B	Cyanide, Total and/or Amenable	SW846	TAL HOU
9045D	pH	SW846	TAL HOU
9066	Phenolics (Colorimetric, 4-AAP with Distillation)	SW846	TAL HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
3050B	Preparation, Metals	SW846	TAL SL
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
3546	Microwave Extraction	SW846	TAL PEN
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471B	Mercury in Solid or Semi-Solid Waste (Manual Cold Vapor Technique)/Preparation	SW846	TAL HOU
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU
Distill/Phenol	Distillation, Phenolics	None	TAL HOU
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"

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

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.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Houston

Sample Summary

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

Job ID: 600-209491-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Solid	08/07/20 15:20	08/08/20 10:05	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Solid	08/07/20 16:00	08/08/20 10:05	

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE155-S-2-3-200807

Lab Sample ID: 600-209491-1

Date Collected: 08/07/20 15:20

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.00	U	12.0	2.00	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Vinyl chloride	1.08	U	12.0	1.08	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Bromomethane	0.998	U	12.0	0.998	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Trichlorofluoromethane	0.793	U	12.0	0.793	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Acrolein	7.49	U	30.0	7.49	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
1,1-Dichloroethene	1.47	U	6.01	1.47	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
trans-1,2-Dichloroethene	1.37	U	6.01	1.37	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Methyl tert-butyl ether	2.20	U	6.01	2.20	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Methylene Chloride	3.96	J	12.0	2.63	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Acrylonitrile	7.00	U	60.1	7.00	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
cis-1,2-Dichloroethene	0.998	U	6.01	0.998	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Carbon tetrachloride	1.36	U	6.01	1.36	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Benzene	3.53	J	6.01	0.757	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
1,2-Dichloroethane	1.08	U	6.01	1.08	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Trichloroethene	1.68	U	6.01	1.68	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
1,1,1-Trichloroethane	0.889	U	6.01	0.889	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
1,1-Dichloroethane	1.05	U	6.01	1.05	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
1,2-Dichloropropane	0.853	U	6.01	0.853	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
1,4-Dioxane	74.6	U	601	74.6	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Chloroform	2.45	J b	12.0	0.793	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Bromodichloromethane	0.793	U	6.01	0.793	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
1,1-Dichloropropene	0.781	U	6.01	0.781	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
cis-1,3-Dichloropropene	0.649	U	6.01	0.649	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Toluene	1.66	U	6.01	1.66	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
trans-1,3-Dichloropropene	0.697	U	6.01	0.697	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
1,1,2-Trichloroethane	0.877	U	6.01	0.877	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Tetrachloroethene	0.853	U	6.01	0.853	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
1,3-Dichloropropene, Total	0.697	U	6.01	0.697	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
1,2-Dibromoethane	1.23	U	6.01	1.23	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Monochlorobenzene	1.15	U	6.01	1.15	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Ethylbenzene	1.23	U	6.01	1.23	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Xylenes, Total	1.36	U	6.01	1.36	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Styrene	0.853	U	6.01	0.853	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Tribromomethane	1.65	U	6.01	1.65	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
1,1,2,2-Tetrachloroethane	1.05	U	6.01	1.05	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
1,4-Dichlorobenzene	0.793	U	6.01	0.793	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
1,2-Dichlorobenzene	0.962	U	6.01	0.962	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
1,2,4-Trichlorobenzene	2.37	U	6.01	2.37	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1
Dichlorodifluoromethane	1.85	U	6.01	1.85	ug/Kg	☆	08/12/20 11:03	08/13/20 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		61 - 130	08/12/20 11:03	08/13/20 16:22	1
Dibromofluoromethane	87		68 - 140	08/12/20 11:03	08/13/20 16:22	1
Toluene-d8 (Surr)	87		50 - 130	08/12/20 11:03	08/13/20 16:22	1
4-Bromofluorobenzene	103		57 - 140	08/12/20 11:03	08/13/20 16:22	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.82	U	38.3	4.82	ug/Kg	☆	08/12/20 11:16	08/17/20 18:25	1
N-Nitrosodiethylamine	8.25	U	38.3	8.25	ug/Kg	☆	08/12/20 11:16	08/17/20 18:25	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE155-S-2-3-200807

Lab Sample ID: 600-209491-1

Date Collected: 08/07/20 15:20

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	1.90	U	38.3	1.90	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Hexachloroethane	2.65	U	38.3	2.65	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
N-Nitrosopyrrolidine	5.37	U	38.3	5.37	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Nitrobenzene	3.40	U	38.3	3.40	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Isophorone	1.15	U	38.3	1.15	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
2,4-Dichlorophenol	4.45	U	38.3	4.45	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Naphthalene	1.55	U	38.3	1.55	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Hexachlorobutadiene	2.21	U	38.3	2.21	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
N-Nitrosodi-n-butylamine	19.2	U	38.3	19.2	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
2-Methylnaphthalene	3.15	U	38.3	3.15	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
1-Methylnaphthalene	1.80	U	38.3	1.80	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
1,2,4,5-Tetrachlorobenzene	7.76	U	38.3	7.76	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Hexachlorocyclopentadiene	5.30	U	38.3	5.30	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
2,4,6-Trichlorophenol	3.08	U	38.3	3.08	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
2,4,5-Trichlorophenol	11.5	U	38.3	11.5	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Dimethyl phthalate	5.62	U	76.7	5.62	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Acenaphthylene	1.15	U	38.3	1.15	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
2,6-Dinitrotoluene	3.39	U	38.3	3.39	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Acenaphthene	1.65	U	38.3	1.65	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Dinitrophenols	5.42	U	115	5.42	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Pentachlorobenzene	4.61	U	38.3	4.61	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
2,4-Dinitrotoluene	4.15	U	38.3	4.15	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Diethyl phthalate	9.69	U	76.7	9.69	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Fluorene	2.71	U	38.3	2.71	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Dinitro-o-cresol	5.72	U	195	5.72	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
N-Nitrosodiphenylamine	2.17	U	38.3	2.17	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Diphenylhydrazine, 1,2-	1.86	U	38.3	1.86	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Hexachlorobenzene	1.75	U	38.3	1.75	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Atrazine	5.77	U	38.3	5.77	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Pentachlorophenol	4.60	U	192	4.60	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Phenanthrene	5.69	U	38.3	5.69	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Anthracene	1.47	U	38.3	1.47	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Dibutylphthalate	18.7	J	76.7	2.98	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Fluoranthene	3.57	U	38.3	3.57	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Benzidine	10.4	U	379	10.4	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Pyrene	2.10	U	38.3	2.10	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Dichlorobenzidine, 3,3'-	11.7	U	38.3	11.7	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Benzo[a]anthracene	1.59	U	38.3	1.59	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Di (2-ethylhexyl)phthalate	44.2		38.3	6.17	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Chrysene	1.17	U	38.3	1.17	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Benzo[b]fluoranthene	1.98	U	38.3	1.98	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Benzo[k]fluoranthene	1.71	U	38.3	1.71	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Benzo[a]pyrene	1.85	U	38.3	1.85	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Indeno[1,2,3-cd]pyrene	4.02	U	38.3	4.02	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Dibenz(a,h)anthracene	4.17	U	38.3	4.17	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Benzo[g,h,i]perylene	5.83	U	38.3	5.83	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
bis (2-chloroisopropyl) ether	10.2	U	38.3	10.2	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1
Thiophene, tetrahydro-, 1,1-dioxide	19.2	U	38.3	19.2	ug/Kg	✱	08/12/20 11:16	08/17/20 18:25	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE155-S-2-3-200807

Lab Sample ID: 600-209491-1

Date Collected: 08/07/20 15:20

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		10 - 148	08/12/20 11:16	08/17/20 18:25	1
2-Fluorobiphenyl	84		38 - 130	08/12/20 11:16	08/17/20 18:25	1
2-Fluorophenol	80		25 - 132	08/12/20 11:16	08/17/20 18:25	1
Nitrobenzene-d5	81		10 - 155	08/12/20 11:16	08/17/20 18:25	1
Terphenyl-d14	102		53 - 134	08/12/20 11:16	08/17/20 18:25	1
Phenol-d5 (Surr)	78		27 - 130	08/12/20 11:16	08/17/20 18:25	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.6	U	74.9	13.6	ug/Kg	☼	08/18/20 13:26	08/20/20 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	73		30 - 164				08/18/20 13:26	08/20/20 18:04	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.713	U	1.22	0.713	mg/Kg	☼	08/13/20 07:54	08/14/20 11:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		70 - 130				08/13/20 07:54	08/14/20 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11.6		8.65	2.96	mg/Kg	☼	08/10/20 15:56	08/13/20 22:32	1
C28-C36	8.65	U	8.65	8.65	mg/Kg	☼	08/10/20 15:56	08/13/20 22:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	126		60 - 140				08/10/20 15:56	08/13/20 22:32	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.50	U	1.95	1.50	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Hexachlorocyclohexane, beta-	1.17	U	1.95	1.17	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Hexachlorocyclohexane, delta-	0.976	U	1.95	0.976	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Hexachlorocyclohexane, alpha-	1.15	U	1.95	1.15	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Hexachlorocyclohexane, gamma-	1.07	U	1.95	1.07	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Chlordane (technical)	26.9	U	86.1	26.9	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
DDT	2.12	U	3.79	2.12	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Dieldrin	1.60	U	3.79	1.60	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Endosulfan I	1.15	U	1.95	1.15	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Endosulfan II	1.73	U	3.79	1.73	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Endosulfan sulfate	1.93	U	3.79	1.93	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Endrin	1.76	U	3.79	1.76	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Endrin aldehyde	1.79	U	3.79	1.79	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Heptachlor	1.07	U	1.95	1.07	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Heptachlor epoxide	1.34	U	1.95	1.34	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Toxaphene	84.0	U	195	84.0	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		47 - 150				08/11/20 08:51	08/12/20 01:47	1
Tetrachloro-m-xylene	84		50 - 143				08/11/20 08:51	08/12/20 01:47	1

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Client Sample Results

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE155-S-2-3-200807

Lab Sample ID: 600-209491-1

Date Collected: 08/07/20 15:20

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.7

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00184	U	0.0192	0.00184	mg/Kg	☆	08/11/20 08:51	08/13/20 12:30	1
PCB-1221	0.00991	U	0.0192	0.00991	mg/Kg	☆	08/11/20 08:51	08/13/20 12:30	1
PCB-1232	0.00769	U	0.0192	0.00769	mg/Kg	☆	08/11/20 08:51	08/13/20 12:30	1
PCB-1242	0.00142	U	0.0192	0.00142	mg/Kg	☆	08/11/20 08:51	08/13/20 12:30	1
PCB-1248	0.00286	U	0.0192	0.00286	mg/Kg	☆	08/11/20 08:51	08/13/20 12:30	1
PCB-1254	0.00254	U	0.0192	0.00254	mg/Kg	☆	08/11/20 08:51	08/13/20 12:30	1
PCB-1260	0.0155	U	0.0192	0.0155	mg/Kg	☆	08/11/20 08:51	08/13/20 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		10 - 150	08/11/20 08:51	08/13/20 12:30	1
DCB Decachlorobiphenyl	112		10 - 150	08/11/20 08:51	08/13/20 12:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.42	J	4.62	0.616	mg/Kg	☆		08/12/20 02:16	1
Nitrate as N	8.78		2.31	0.290	mg/Kg	☆		08/12/20 02:16	1
Fluoride	7.04		2.31	0.694	mg/Kg	☆		08/12/20 02:16	1
Nitrite as N	0.343	U	2.31	0.343	mg/Kg	☆		08/12/20 02:16	1
Sulfate	81.3		5.77	1.10	mg/Kg	☆		08/12/20 02:16	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	0.0937	0.0213	mg/Kg		08/12/20 15:04	08/14/20 01:53	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0403	U	0.187	0.0403	mg/Kg		08/12/20 15:04	08/14/20 01:53	1
2,4,6-Trinitrotoluene	0.0288	U	0.0937	0.0288	mg/Kg		08/12/20 15:04	08/14/20 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	103		83 - 122	08/12/20 15:04	08/14/20 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	0.0927	U	0.562	0.0927	ug/Kg	☆	08/12/20 11:00	08/20/20 16:45	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.249	U	0.867	0.249	ug/Kg	☆	08/17/20 14:49	08/24/20 15:17	1
Perfluorohexanesulfonic acid (PFHxS)	0.303	U	0.867	0.303	ug/Kg	☆	08/17/20 14:49	08/24/20 15:17	1
Perfluorooctanesulfonic acid (PFOS)	0.152	U	0.867	0.152	ug/Kg	☆	08/17/20 14:49	08/24/20 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	08/17/20 14:49	08/24/20 15:17	1
13C8 PFOS	97		70 - 130	08/17/20 14:49	08/24/20 15:17	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.754	U	2.01	0.754	mg/Kg	☆	09/04/20 10:33	09/09/20 20:08	20
Arsenic	4.76	J	10.1	4.02	mg/Kg	☆	09/04/20 10:33	09/09/20 20:08	20
Barium	288		20.1	5.03	mg/Kg	☆	09/04/20 10:33	09/09/20 20:08	20
Beryllium	0.402	U	1.01	0.402	mg/Kg	☆	09/04/20 10:33	09/09/20 20:08	20
Cadmium	0.241	U	0.503	0.241	mg/Kg	☆	09/04/20 10:33	09/09/20 20:08	20
Chromium	4.52	U	10.1	4.52	mg/Kg	☆	09/04/20 10:33	09/09/20 20:08	20

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE155-S-2-3-200807

Lab Sample ID: 600-209491-1

Date Collected: 08/07/20 15:20

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.7

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1630		121	60.3	mg/Kg	☆	09/04/20 10:33	09/09/20 20:08	20
Copper	4.02	U	10.1	4.02	mg/Kg	☆	09/04/20 10:33	09/09/20 20:08	20
Manganese	10.0		5.03	2.01	mg/Kg	☆	09/04/20 10:33	09/09/20 20:08	20
Lead	1.26	U	3.02	1.26	mg/Kg	☆	09/04/20 10:33	09/09/20 20:08	20
Antimony	2.01	U	5.03	2.01	mg/Kg	☆	09/04/20 10:33	09/09/20 20:08	20
Selenium	3.22	U	5.03	3.22	mg/Kg	☆	09/04/20 10:33	09/09/20 20:08	20
Thallium	2.01	U	5.03	2.01	mg/Kg	☆	09/04/20 10:33	09/09/20 20:08	20
Zinc	20.1	U	50.3	20.1	mg/Kg	☆	09/04/20 10:33	09/09/20 20:08	20
Uranium	0.402	U	1.01	0.402	mg/Kg	☆	09/04/20 10:33	09/09/20 20:08	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00381	U	0.0181	0.00381	mg/Kg	☆	09/02/20 13:16	09/03/20 14:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.3		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	86.7		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0205	U	0.136	0.0205	mg/Kg	☆	08/20/20 13:55	08/20/20 17:50	1
pH	8.8	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.483	U	0.576	0.483	mg/Kg	☆	08/21/20 12:16	08/21/20 13:57	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	159		10.0	10.0	mg/L			08/17/20 11:57	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	1.71		0.232	0.292	1.00	0.110	pCi/g	08/17/20 17:22	09/08/20 17:29	1
Radium-228	0.133	U	0.211	0.212		0.350	pCi/g	08/17/20 17:22	09/08/20 17:29	1
Combined Radium 226 + 228	1.85		0.314	0.361		0.350	pCi/g	08/17/20 17:22	09/08/20 17:29	1

Client Sample ID: CELL21-SQUARE208-S-2-3-200807

Lab Sample ID: 600-209491-2

Date Collected: 08/07/20 16:00

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 87.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.05	U	12.3	2.05	ug/Kg	☆	08/12/20 11:03	08/13/20 16:46	1
Vinyl chloride	1.11	U	12.3	1.11	ug/Kg	☆	08/12/20 11:03	08/13/20 16:46	1
Bromomethane	1.02	U	12.3	1.02	ug/Kg	☆	08/12/20 11:03	08/13/20 16:46	1
Trichlorofluoromethane	0.814	U	12.3	0.814	ug/Kg	☆	08/12/20 11:03	08/13/20 16:46	1
Acrolein	7.68	U	30.8	7.68	ug/Kg	☆	08/12/20 11:03	08/13/20 16:46	1
1,1-Dichloroethene	1.50	U	6.17	1.50	ug/Kg	☆	08/12/20 11:03	08/13/20 16:46	1
trans-1,2-Dichloroethene	1.41	U	6.17	1.41	ug/Kg	☆	08/12/20 11:03	08/13/20 16:46	1
Methyl tert-butyl ether	2.26	U	6.17	2.26	ug/Kg	☆	08/12/20 11:03	08/13/20 16:46	1
Methylene Chloride	2.93	J	12.3	2.70	ug/Kg	☆	08/12/20 11:03	08/13/20 16:46	1
Acrylonitrile	7.18	U	61.7	7.18	ug/Kg	☆	08/12/20 11:03	08/13/20 16:46	1

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Client Sample Results

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE208-S-2-3-200807

Lab Sample ID: 600-209491-2

Date Collected: 08/07/20 16:00

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.02	U	6.17	1.02	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
Carbon tetrachloride	1.39	U	6.17	1.39	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
Benzene	0.777	U	6.17	0.777	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
1,2-Dichloroethane	1.11	U	6.17	1.11	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
Trichloroethene	1.73	U	6.17	1.73	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
1,1,1-Trichloroethane	0.913	U	6.17	0.913	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
1,1-Dichloroethane	1.07	U	6.17	1.07	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
1,2-Dichloropropane	0.876	U	6.17	0.876	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
1,4-Dioxane	76.6	U	6.17	76.6	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
Chloroform	2.38	J b	12.3	0.814	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
Bromodichloromethane	0.814	U	6.17	0.814	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
1,1-Dichloropropene	0.802	U	6.17	0.802	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
cis-1,3-Dichloropropene	0.666	U	6.17	0.666	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
Toluene	1.70	U	6.17	1.70	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
trans-1,3-Dichloropropene	0.715	U	6.17	0.715	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
1,1,2-Trichloroethane	0.900	U	6.17	0.900	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
Tetrachloroethene	0.876	U	6.17	0.876	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
1,3-Dichloropropene, Total	0.715	U	6.17	0.715	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
1,2-Dibromoethane	1.26	U	6.17	1.26	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
Monochlorobenzene	1.18	U	6.17	1.18	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
Ethylbenzene	1.26	U	6.17	1.26	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
Xylenes, Total	1.39	U	6.17	1.39	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
Styrene	0.876	U	6.17	0.876	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
Tribromomethane	1.69	U	6.17	1.69	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
1,1,2,2-Tetrachloroethane	1.07	U	6.17	1.07	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
1,4-Dichlorobenzene	0.814	U	6.17	0.814	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
1,2-Dichlorobenzene	0.987	U	6.17	0.987	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
1,2,4-Trichlorobenzene	2.43	U	6.17	2.43	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
Dichlorodifluoromethane	1.90	U	6.17	1.90	ug/Kg	✱	08/12/20 11:03	08/13/20 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		61 - 130				08/12/20 11:03	08/13/20 16:46	1
Dibromofluoromethane	89		68 - 140				08/12/20 11:03	08/13/20 16:46	1
Toluene-d8 (Surr)	91		50 - 130				08/12/20 11:03	08/13/20 16:46	1
4-Bromofluorobenzene	107		57 - 140				08/12/20 11:03	08/13/20 16:46	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.78	U	38.0	4.78	ug/Kg	✱	08/12/20 11:16	08/17/20 18:49	1
N-Nitrosodiethylamine	8.20	U	38.0	8.20	ug/Kg	✱	08/12/20 11:16	08/17/20 18:49	1
Bis(2-chloroethyl)ether	1.88	U	38.0	1.88	ug/Kg	✱	08/12/20 11:16	08/17/20 18:49	1
Hexachloroethane	2.64	U	38.0	2.64	ug/Kg	✱	08/12/20 11:16	08/17/20 18:49	1
N-Nitrosopyrrolidine	5.33	U	38.0	5.33	ug/Kg	✱	08/12/20 11:16	08/17/20 18:49	1
Nitrobenzene	3.38	U	38.0	3.38	ug/Kg	✱	08/12/20 11:16	08/17/20 18:49	1
Isophorone	1.14	U	38.0	1.14	ug/Kg	✱	08/12/20 11:16	08/17/20 18:49	1
2,4-Dichlorophenol	4.42	U	38.0	4.42	ug/Kg	✱	08/12/20 11:16	08/17/20 18:49	1
Naphthalene	1.54	U	38.0	1.54	ug/Kg	✱	08/12/20 11:16	08/17/20 18:49	1
Hexachlorobutadiene	2.19	U	38.0	2.19	ug/Kg	✱	08/12/20 11:16	08/17/20 18:49	1
N-Nitrosodi-n-butylamine	19.0	U	38.0	19.0	ug/Kg	✱	08/12/20 11:16	08/17/20 18:49	1
2-Methylnaphthalene	3.13	U	38.0	3.13	ug/Kg	✱	08/12/20 11:16	08/17/20 18:49	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE208-S-2-3-200807

Lab Sample ID: 600-209491-2

Date Collected: 08/07/20 16:00

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 87.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	1.79	U	38.0	1.79	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
1,2,4,5-Tetrachlorobenzene	7.71	U	38.0	7.71	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Hexachlorocyclopentadiene	5.26	U	38.0	5.26	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
2,4,6-Trichlorophenol	3.06	U	38.0	3.06	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
2,4,5-Trichlorophenol	11.4	U	38.0	11.4	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Dimethyl phthalate	5.58	U	76.1	5.58	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Acenaphthylene	1.14	U	38.0	1.14	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
2,6-Dinitrotoluene	3.37	U	38.0	3.37	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Acenaphthene	1.64	U	38.0	1.64	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Dinitrophenols	5.39	U	114	5.39	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Pentachlorobenzene	4.58	U	38.0	4.58	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
2,4-Dinitrotoluene	4.12	U	38.0	4.12	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Diethyl phthalate	9.62	U	76.1	9.62	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Fluorene	2.69	U	38.0	2.69	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Dinitro-o-cresol	5.68	U	194	5.68	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
N-Nitrosodiphenylamine	2.16	U	38.0	2.16	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Diphenylhydrazine, 1,2-	1.85	U	38.0	1.85	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Hexachlorobenzene	1.74	U	38.0	1.74	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Atrazine	5.73	U	38.0	5.73	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Pentachlorophenol	4.57	U	191	4.57	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Phenanthrene	5.65	U	38.0	5.65	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Anthracene	1.46	U	38.0	1.46	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Dibutylphthalate	14.8	J	76.1	2.96	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Fluoranthene	3.55	U	38.0	3.55	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Benzidine	10.3	U	377	10.3	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Pyrene	2.09	U	38.0	2.09	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Dichlorobenzidine, 3,3'-	11.6	U	38.0	11.6	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Benzo[a]anthracene	1.58	U	38.0	1.58	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Di (2-ethylhexyl)phthalate	29.5	J	38.0	6.13	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Chrysene	1.16	U	38.0	1.16	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Benzo[b]fluoranthene	1.96	U	38.0	1.96	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Benzo[k]fluoranthene	1.70	U	38.0	1.70	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Benzo[a]pyrene	1.84	U	38.0	1.84	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Indeno[1,2,3-cd]pyrene	4.00	U	38.0	4.00	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Dibenz(a,h)anthracene	4.14	U	38.0	4.14	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Benzo[g,h,i]perylene	5.79	U	38.0	5.79	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
bis (2-chloroisopropyl) ether	10.1	U	38.0	10.1	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1
Thiophene, tetrahydro-, 1,1-dioxide	19.0	U	38.0	19.0	ug/Kg	☆	08/12/20 11:16	08/17/20 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	47		10 - 148	08/12/20 11:16	08/17/20 18:49	1
2-Fluorobiphenyl	87		38 - 130	08/12/20 11:16	08/17/20 18:49	1
2-Fluorophenol	75		25 - 132	08/12/20 11:16	08/17/20 18:49	1
Nitrobenzene-d5	78		10 - 155	08/12/20 11:16	08/17/20 18:49	1
Terphenyl-d14	106		53 - 134	08/12/20 11:16	08/17/20 18:49	1
Phenol-d5 (Surr)	78		27 - 130	08/12/20 11:16	08/17/20 18:49	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.5	U	74.2	13.5	ug/Kg	☆	08/18/20 13:26	08/20/20 17:39	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE208-S-2-3-200807

Lab Sample ID: 600-209491-2

Date Collected: 08/07/20 16:00

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 87.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	67		30 - 164	08/18/20 13:26	08/20/20 17:39	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.656	U	1.12	0.656	mg/Kg	☼	08/13/20 07:54	08/13/20 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	102		70 - 130				08/13/20 07:54	08/13/20 16:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.93	U	8.57	2.93	mg/Kg	☼	08/10/20 15:56	08/13/20 23:05	1
C28-C36	8.57	U	8.57	8.57	mg/Kg	☼	08/10/20 15:56	08/13/20 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	93		60 - 140				08/10/20 15:56	08/13/20 23:05	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.49	U	1.94	1.49	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Hexachlorocyclohexane, beta-	1.16	U	1.94	1.16	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Hexachlorocyclohexane, delta-	0.970	U	1.94	0.970	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Hexachlorocyclohexane, alpha-	1.14	U	1.94	1.14	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Hexachlorocyclohexane, gamma-	1.06	U	1.94	1.06	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Chlordane (technical)	26.7	U	85.6	26.7	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
DDT	2.11	U	3.76	2.11	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Dieldrin	1.59	U	3.76	1.59	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Endosulfan I	1.14	U	1.94	1.14	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Endosulfan II	1.72	U	3.76	1.72	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Endosulfan sulfate	1.92	U	3.76	1.92	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Endrin	1.75	U	3.76	1.75	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Endrin aldehyde	1.78	U	3.76	1.78	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Heptachlor	1.06	U	1.94	1.06	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Heptachlor epoxide	1.33	U	1.94	1.33	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Toxaphene	83.4	U	194	83.4	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		47 - 150				08/11/20 08:51	08/12/20 02:12	1
Tetrachloro-m-xylene	94		50 - 143				08/11/20 08:51	08/12/20 02:12	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00183	U	0.0191	0.00183	mg/Kg	☼	08/11/20 08:51	08/13/20 12:56	1
PCB-1221	0.00984	U	0.0191	0.00984	mg/Kg	☼	08/11/20 08:51	08/13/20 12:56	1
PCB-1232	0.00764	U	0.0191	0.00764	mg/Kg	☼	08/11/20 08:51	08/13/20 12:56	1
PCB-1242	0.00141	U	0.0191	0.00141	mg/Kg	☼	08/11/20 08:51	08/13/20 12:56	1
PCB-1248	0.00284	U	0.0191	0.00284	mg/Kg	☼	08/11/20 08:51	08/13/20 12:56	1
PCB-1254	0.00252	U	0.0191	0.00252	mg/Kg	☼	08/11/20 08:51	08/13/20 12:56	1
PCB-1260	0.0154	U	0.0191	0.0154	mg/Kg	☼	08/11/20 08:51	08/13/20 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	98		10 - 150				08/11/20 08:51	08/13/20 12:56	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE208-S-2-3-200807

Lab Sample ID: 600-209491-2

Date Collected: 08/07/20 16:00

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 87.4

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	119		10 - 150	08/11/20 08:51	08/13/20 12:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.25	J	4.58	0.611	mg/Kg	✱		08/12/20 02:36	1
Nitrate as N	4.68		2.29	0.287	mg/Kg	✱		08/12/20 02:36	1
Fluoride	9.38		2.29	0.688	mg/Kg	✱		08/12/20 02:36	1
Nitrite as N	0.340	U	2.29	0.340	mg/Kg	✱		08/12/20 02:36	1
Sulfate	48.2		5.72	1.10	mg/Kg	✱		08/12/20 02:36	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		08/12/20 15:04	08/14/20 02:16	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0401	U	0.187	0.0401	mg/Kg		08/12/20 15:04	08/14/20 02:16	1
2,4,6-Trinitrotoluene	0.0287	U	0.0934	0.0287	mg/Kg		08/12/20 15:04	08/14/20 02:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	102		83 - 122	08/12/20 15:04	08/14/20 02:16	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0930	U	0.564	0.0930	ug/Kg	✱	08/12/20 11:00	08/20/20 16:50	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.248	U	0.863	0.248	ug/Kg	✱	08/17/20 14:49	08/24/20 15:26	1
Perfluorohexanesulfonic acid (PFHxS)	0.302	U	0.863	0.302	ug/Kg	✱	08/17/20 14:49	08/24/20 15:26	1
Perfluorooctanesulfonic acid (PFOS)	0.151	U	0.863	0.151	ug/Kg	✱	08/17/20 14:49	08/24/20 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	102		57 - 153	08/17/20 14:49	08/24/20 15:26	1
13C8 PFOS	98		70 - 130	08/17/20 14:49	08/24/20 15:26	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.761	U	2.03	0.761	mg/Kg	✱	09/04/20 10:33	09/09/20 20:12	20
Arsenic	4.06	U	10.2	4.06	mg/Kg	✱	09/04/20 10:33	09/09/20 20:12	20
Barium	297		20.3	5.08	mg/Kg	✱	09/04/20 10:33	09/09/20 20:12	20
Beryllium	0.406	U	1.02	0.406	mg/Kg	✱	09/04/20 10:33	09/09/20 20:12	20
Cadmium	0.244	U	0.508	0.244	mg/Kg	✱	09/04/20 10:33	09/09/20 20:12	20
Chromium	4.57	U	10.2	4.57	mg/Kg	✱	09/04/20 10:33	09/09/20 20:12	20
Iron	3670		122	60.9	mg/Kg	✱	09/04/20 10:33	09/09/20 20:12	20
Copper	4.06	U	10.2	4.06	mg/Kg	✱	09/04/20 10:33	09/09/20 20:12	20
Manganese	43.2		5.08	2.03	mg/Kg	✱	09/04/20 10:33	09/09/20 20:12	20
Lead	1.27	U	3.05	1.27	mg/Kg	✱	09/04/20 10:33	09/09/20 20:12	20
Antimony	2.03	U	5.08	2.03	mg/Kg	✱	09/04/20 10:33	09/09/20 20:12	20
Selenium	3.25	U	5.08	3.25	mg/Kg	✱	09/04/20 10:33	09/09/20 20:12	20
Thallium	2.03	U	5.08	2.03	mg/Kg	✱	09/04/20 10:33	09/09/20 20:12	20
Zinc	20.3	U	50.8	20.3	mg/Kg	✱	09/04/20 10:33	09/09/20 20:12	20
Uranium	0.406	U	1.02	0.406	mg/Kg	✱	09/04/20 10:33	09/09/20 20:12	20

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE208-S-2-3-200807

Lab Sample ID: 600-209491-2

Date Collected: 08/07/20 16:00

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 87.4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00403	U	0.0191	0.00403	mg/Kg	☼	09/02/20 13:16	09/03/20 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.6		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	87.4		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0185	U	0.123	0.0185	mg/Kg	☼	08/20/20 13:55	08/20/20 17:51	1
pH	9.0	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.477	U	0.569	0.477	mg/Kg	☼	08/21/20 12:16	08/21/20 13:59	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	127		10.0	10.0	mg/L			08/17/20 11:57	1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.03		0.197	0.224	1.00	0.120	pCi/g	08/17/20 17:22	09/08/20 17:31	1
Radium-228	-0.133	U	0.272	0.273		0.508	pCi/g	08/17/20 17:22	09/08/20 17:31	1
Combined Radium 226 + 228	0.899		0.336	0.353		0.508	pCi/g	08/17/20 17:22	09/08/20 17:31	1

Eurofins TestAmerica, Houston

Definitions/Glossary

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

Job ID: 600-209491-1

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

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result is greater than the UQL and the concentration is an estimated value.
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 VOA

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

GC Semi VOA

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

HPLC/IC

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

LCMS

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

Metals

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

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
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)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"

Eurofins TestAmerica, Houston

Definitions/Glossary

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

Job ID: 600-209491-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

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

Job ID: 600-209491-1

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 (61-130)	DBFM (68-140)	TOL (50-130)	BFB (57-140)
600-209491-1	CELL21-SQUARE155-S-2-3-20(	104	87	87	103
600-209491-2	CELL21-SQUARE208-S-2-3-20 0807	99	89	91	107
LCS 600-301050/3	Lab Control Sample	86	87	97	112
LCSD 600-301050/4	Lab Control Sample Dup	80	82	92	103
MB 600-301050/6	Method Blank	103	90	94	111
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
DBFM = Dibromofluoromethane					
TOL = Toluene-d8 (Surr)					
BFB = 4-Bromofluorobenzene					

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (10-148)	FBP (38-130)	2FP (25-132)	NBZ (10-155)	TPHL (53-134)	PHL (27-130)
600-209491-1	CELL21-SQUARE155-S-2-3-20(	59	84	80	81	102	78
600-209491-2	CELL21-SQUARE208-S-2-3-20 0807	47	87	75	78	106	78
LCS 600-300979/24-A	Lab Control Sample	99	95	87	91	116	89
LCS 600-300979/25-A	Lab Control Sample	56	85	73	84	109	79
LCS 600-300979/2-A	Lab Control Sample	100	98	91	95	112	93
MB 600-300979/1-A	Method Blank	76	90	84	89	113	84
Surrogate Legend							
TBP = 2,4,6-Tribromophenol							
FBP = 2-Fluorobiphenyl							
2FP = 2-Fluorophenol							
NBZ = Nitrobenzene-d5							
TPHL = Terphenyl-d14							
PHL = Phenol-d5 (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)	
600-209491-1	CELL21-SQUARE155-S-2-3-20(	73	
600-209491-2	CELL21-SQUARE208-S-2-3-20 0807	67	
600-209491-2 MS	CELL21-SQUARE208-S-2-3-20 0807	87	
600-209491-2 MSD	CELL21-SQUARE208-S-2-3-20 0807	72	
LCS 400-500724/2-A	Lab Control Sample	87	
MB 400-500724/1-A	Method Blank	75	
Surrogate Legend			
TPP = Triphenylphosphate			

Eurofins TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209491-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFT1 (70-130)
600-209491-1	CELL21-SQUARE155-S-2-3-20(	95
600-209491-2	CELL21-SQUARE208-S-2-3-20 0807	102

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH1 (60-140)
600-209491-1	CELL21-SQUARE155-S-2-3-20(	126
600-209491-2	CELL21-SQUARE208-S-2-3-20 0807	93
LCS 600-300806/2-A	Lab Control Sample	131
LCSD 600-300806/3-A	Lab Control Sample Dup	131
MB 600-300806/1-A	Method Blank	125

Surrogate Legend

OTPH = o-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP1 (47-150)	TCX1 (50-143)
600-209491-1	CELL21-SQUARE155-S-2-3-20(	79	84
600-209491-2	CELL21-SQUARE208-S-2-3-20 0807	77	94
LCS 600-300862/2-A	Lab Control Sample	76	74
LCSD 600-300862/3-A	Lab Control Sample Dup	104	89
MB 600-300862/1-A	Method Blank	127	116

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (10-150)	DCBP1 (10-150)
600-209491-1	CELL21-SQUARE155-S-2-3-20(	85	112
600-209491-2	CELL21-SQUARE208-S-2-3-20 0807	98	119

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Eurofins TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209491-1

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)
600-209491-1	CELL21-SQUARE155-S-2-3-20(	103
600-209491-2	CELL21-SQUARE208-S-2-3-20	102
	0807	
LCS 280-505436/2-A	Lab Control Sample	106
MB 280-505436/1-A	Method Blank	102

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)
600-209491-1	CELL21-SQUARE155-S-2-3-20(	103	97
600-209491-2	CELL21-SQUARE208-S-2-3-20	102	98
	0807		
DLCK 280-500633/14	Lab Control Sample	108	91
LCS 280-505864/2-A	Lab Control Sample	101	98
MB 280-505864/1-A	Method Blank	104	94

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: 600-209491-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-301050/6

Matrix: Solid

Analysis Batch: 301050

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.66	U	10.0	1.66	ug/Kg			08/13/20 09:16	1
Vinyl chloride	0.900	U	10.0	0.900	ug/Kg			08/13/20 09:16	1
Bromomethane	0.830	U	10.0	0.830	ug/Kg			08/13/20 09:16	1
Trichlorofluoromethane	0.660	U	10.0	0.660	ug/Kg			08/13/20 09:16	1
Acrolein	6.23	U	25.0	6.23	ug/Kg			08/13/20 09:16	1
1,1-Dichloroethene	1.22	U	5.00	1.22	ug/Kg			08/13/20 09:16	1
trans-1,2-Dichloroethene	1.14	U	5.00	1.14	ug/Kg			08/13/20 09:16	1
Methyl tert-butyl ether	1.83	U	5.00	1.83	ug/Kg			08/13/20 09:16	1
Methylene Chloride	2.19	U	10.0	2.19	ug/Kg			08/13/20 09:16	1
Acrylonitrile	5.82	U	50.0	5.82	ug/Kg			08/13/20 09:16	1
cis-1,2-Dichloroethene	0.830	U	5.00	0.830	ug/Kg			08/13/20 09:16	1
Carbon tetrachloride	1.13	U	5.00	1.13	ug/Kg			08/13/20 09:16	1
Benzene	0.630	U	5.00	0.630	ug/Kg			08/13/20 09:16	1
1,2-Dichloroethane	0.900	U	5.00	0.900	ug/Kg			08/13/20 09:16	1
Trichloroethene	1.40	U	5.00	1.40	ug/Kg			08/13/20 09:16	1
1,1,1-Trichloroethane	0.740	U	5.00	0.740	ug/Kg			08/13/20 09:16	1
1,1-Dichloroethane	0.870	U	5.00	0.870	ug/Kg			08/13/20 09:16	1
1,2-Dichloropropane	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
1,4-Dioxane	62.1	U	500	62.1	ug/Kg			08/13/20 09:16	1
Chloroform	1.495	J	10.0	0.660	ug/Kg			08/13/20 09:16	1
Bromodichloromethane	0.660	U	5.00	0.660	ug/Kg			08/13/20 09:16	1
1,1-Dichloropropene	0.650	U	5.00	0.650	ug/Kg			08/13/20 09:16	1
cis-1,3-Dichloropropene	0.540	U	5.00	0.540	ug/Kg			08/13/20 09:16	1
Toluene	1.38	U	5.00	1.38	ug/Kg			08/13/20 09:16	1
trans-1,3-Dichloropropene	0.580	U	5.00	0.580	ug/Kg			08/13/20 09:16	1
1,1,2-Trichloroethane	0.730	U	5.00	0.730	ug/Kg			08/13/20 09:16	1
Tetrachloroethene	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
1,3-Dichloropropene, Total	0.580	U	5.00	0.580	ug/Kg			08/13/20 09:16	1
1,2-Dibromoethane	1.02	U	5.00	1.02	ug/Kg			08/13/20 09:16	1
Monochlorobenzene	0.960	U	5.00	0.960	ug/Kg			08/13/20 09:16	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			08/13/20 09:16	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			08/13/20 09:16	1
Styrene	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
Tribromomethane	1.37	U	5.00	1.37	ug/Kg			08/13/20 09:16	1
1,1,2,2-Tetrachloroethane	0.870	U	5.00	0.870	ug/Kg			08/13/20 09:16	1
1,4-Dichlorobenzene	0.660	U	5.00	0.660	ug/Kg			08/13/20 09:16	1
1,2-Dichlorobenzene	0.800	U	5.00	0.800	ug/Kg			08/13/20 09:16	1
1,2,4-Trichlorobenzene	1.97	U	5.00	1.97	ug/Kg			08/13/20 09:16	1
Dichlorodifluoromethane	1.54	U	5.00	1.54	ug/Kg			08/13/20 09:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		61 - 130		08/13/20 09:16	1
Dibromofluoromethane	90		68 - 140		08/13/20 09:16	1
Toluene-d8 (Surr)	94		50 - 130		08/13/20 09:16	1
4-Bromofluorobenzene	111		57 - 140		08/13/20 09:16	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209491-1

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

Lab Sample ID: LCS 600-301050/3

Matrix: Solid

Analysis Batch: 301050

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	62.60		ug/Kg		125	44 - 141
Vinyl chloride	50.0	56.81		ug/Kg		114	40 - 148
Bromomethane	50.0	47.04		ug/Kg		94	37 - 147
Trichlorofluoromethane	50.0	58.99		ug/Kg		118	53 - 134
Acrolein	250	187.8		ug/Kg		75	10 - 150
1,1-Dichloroethene	50.0	43.46		ug/Kg		87	62 - 142
trans-1,2-Dichloroethene	50.0	45.56		ug/Kg		91	69 - 130
Methyl tert-butyl ether	50.0	48.13		ug/Kg		96	63 - 132
Methylene Chloride	50.0	45.62		ug/Kg		91	61 - 150
Acrylonitrile	500	427.0		ug/Kg		85	43 - 150
cis-1,2-Dichloroethene	50.0	45.90		ug/Kg		92	70 - 130
Carbon tetrachloride	50.0	51.32		ug/Kg		103	58 - 130
Benzene	50.0	46.71		ug/Kg		93	70 - 131
1,2-Dichloroethane	50.0	50.78		ug/Kg		102	58 - 137
Trichloroethene	50.0	43.91		ug/Kg		88	63 - 135
1,1,1-Trichloroethane	50.0	53.00		ug/Kg		106	59 - 130
1,1-Dichloroethane	50.0	50.37		ug/Kg		101	63 - 140
1,2-Dichloropropane	50.0	48.85		ug/Kg		98	70 - 130
1,4-Dioxane	1000	710.8		ug/Kg		71	31 - 150
Chloroform	50.0	50.39		ug/Kg		101	69 - 130
Bromodichloromethane	50.0	50.13		ug/Kg		100	67 - 138
1,1-Dichloropropene	50.0	50.16		ug/Kg		100	67 - 130
cis-1,3-Dichloropropene	50.0	47.14		ug/Kg		94	65 - 130
Toluene	50.0	47.87		ug/Kg		96	67 - 130
trans-1,3-Dichloropropene	50.0	48.68		ug/Kg		97	70 - 130
1,1,2-Trichloroethane	50.0	44.09		ug/Kg		88	67 - 134
Tetrachloroethene	50.0	45.09		ug/Kg		90	43 - 143
1,3-Dichloropropene, Total	100	95.82		ug/Kg		96	70 - 130
1,2-Dibromoethane	50.0	41.52		ug/Kg		83	65 - 136
Monochlorobenzene	50.0	46.20		ug/Kg		92	63 - 131
Ethylbenzene	50.0	45.93		ug/Kg		92	66 - 130
Xylenes, Total	100	93.07		ug/Kg		93	63 - 130
Styrene	50.0	45.04		ug/Kg		90	65 - 133
Tribromomethane	50.0	47.04		ug/Kg		94	43 - 150
1,1,2,2-Tetrachloroethane	50.0	46.75		ug/Kg		94	61 - 138
1,4-Dichlorobenzene	50.0	49.09		ug/Kg		98	65 - 131
1,2-Dichlorobenzene	50.0	49.00		ug/Kg		98	61 - 131
1,2,4-Trichlorobenzene	50.0	45.91		ug/Kg		92	53 - 136
Dichlorodifluoromethane	50.0	67.00		ug/Kg		134	24 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		61 - 130
Dibromofluoromethane	87		68 - 140
Toluene-d8 (Surr)	97		50 - 130
4-Bromofluorobenzene	112		57 - 140

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209491-1

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

Lab Sample ID: LCSD 600-301050/4

Matrix: Solid

Analysis Batch: 301050

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
Chloromethane	50.0	70.57		ug/Kg		141	44 - 141	12	30
Vinyl chloride	50.0	60.70		ug/Kg		121	40 - 148	7	30
Bromomethane	50.0	54.12		ug/Kg		108	37 - 147	14	30
Trichlorofluoromethane	50.0	62.29		ug/Kg		125	53 - 134	5	30
Acrolein	250	187.8		ug/Kg		75	10 - 150	0	30
1,1-Dichloroethene	50.0	48.43		ug/Kg		97	62 - 142	11	30
trans-1,2-Dichloroethene	50.0	49.66		ug/Kg		99	69 - 130	9	30
Methyl tert-butyl ether	50.0	47.56		ug/Kg		95	63 - 132	1	30
Methylene Chloride	50.0	50.95		ug/Kg		102	61 - 150	11	30
Acrylonitrile	500	434.3		ug/Kg		87	43 - 150	2	30
cis-1,2-Dichloroethene	50.0	47.09		ug/Kg		94	70 - 130	3	30
Carbon tetrachloride	50.0	52.91		ug/Kg		106	58 - 130	3	30
Benzene	50.0	49.53		ug/Kg		99	70 - 131	6	30
1,2-Dichloroethane	50.0	53.19		ug/Kg		106	58 - 137	5	30
Trichloroethene	50.0	45.48		ug/Kg		91	63 - 135	4	30
1,1,1-Trichloroethane	50.0	55.40		ug/Kg		111	59 - 130	4	30
1,1-Dichloroethane	50.0	53.77		ug/Kg		108	63 - 140	7	30
1,2-Dichloropropane	50.0	51.35		ug/Kg		103	70 - 130	5	30
1,4-Dioxane	1000	632.7		ug/Kg		63	31 - 150	12	30
Chloroform	50.0	52.23		ug/Kg		104	69 - 130	4	30
Bromodichloromethane	50.0	49.98		ug/Kg		100	67 - 138	0	30
1,1-Dichloropropene	50.0	51.98		ug/Kg		104	67 - 130	4	30
cis-1,3-Dichloropropene	50.0	50.70		ug/Kg		101	65 - 130	7	30
Toluene	50.0	50.63		ug/Kg		101	67 - 130	6	30
trans-1,3-Dichloropropene	50.0	51.03		ug/Kg		102	70 - 130	5	30
1,1,2-Trichloroethane	50.0	44.91		ug/Kg		90	67 - 134	2	30
Tetrachloroethene	50.0	48.92		ug/Kg		98	43 - 143	8	30
1,3-Dichloropropene, Total	100	101.7		ug/Kg		102	70 - 130	6	30
1,2-Dibromoethane	50.0	43.77		ug/Kg		88	65 - 136	5	30
Monochlorobenzene	50.0	48.77		ug/Kg		98	63 - 131	5	30
Ethylbenzene	50.0	48.16		ug/Kg		96	66 - 130	5	30
Xylenes, Total	100	98.14		ug/Kg		98	63 - 130	5	30
Styrene	50.0	47.92		ug/Kg		96	65 - 133	6	30
Tribromomethane	50.0	47.54		ug/Kg		95	43 - 150	1	30
1,1,2,2-Tetrachloroethane	50.0	45.97		ug/Kg		92	61 - 138	2	30
1,4-Dichlorobenzene	50.0	51.20		ug/Kg		102	65 - 131	4	30
1,2-Dichlorobenzene	50.0	52.28		ug/Kg		105	61 - 131	6	30
1,2,4-Trichlorobenzene	50.0	50.70		ug/Kg		101	53 - 136	10	30
Dichlorodifluoromethane	50.0	69.88		ug/Kg		140	24 - 147	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		61 - 130
Dibromofluoromethane	82		68 - 140
Toluene-d8 (Surr)	92		50 - 130
4-Bromofluorobenzene	103		57 - 140

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209491-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-300979/1-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.17	U	33.1	4.17	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiethylamine	7.14	U	33.1	7.14	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Bis(2-chloroethyl)ether	1.64	U	33.1	1.64	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachloroethane	2.30	U	33.1	2.30	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosopyrrolidine	4.65	U	33.1	4.65	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene	2.94	U	33.1	2.94	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Isophorone	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dichlorophenol	3.85	U	33.1	3.85	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Naphthalene	1.34	U	33.1	1.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobutadiene	1.91	U	33.1	1.91	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodi-n-butylamine	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2-Methylnaphthalene	2.73	U	33.1	2.73	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1-Methylnaphthalene	1.56	U	33.1	1.56	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1,2,4,5-Tetrachlorobenzene	6.71	U	33.1	6.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorocyclopentadiene	4.59	U	33.1	4.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,6-Trichlorophenol	2.67	U	33.1	2.67	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,5-Trichlorophenol	9.96	U	33.1	9.96	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dimethyl phthalate	4.86	U	66.3	4.86	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthylene	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,6-Dinitrotoluene	2.93	U	33.1	2.93	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthene	1.43	U	33.1	1.43	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitrophenols	4.69	U	99.5	4.69	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorobenzene	3.99	U	33.1	3.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dinitrotoluene	3.59	U	33.1	3.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diethyl phthalate	8.39	U	66.3	8.39	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluorene	2.35	U	33.1	2.35	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitro-o-cresol	4.95	U	169	4.95	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiphenylamine	1.88	U	33.1	1.88	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diphenylhydrazine, 1,2-	1.61	U	33.1	1.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobenzene	1.51	U	33.1	1.51	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Atrazine	4.99	U	33.1	4.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorophenol	3.98	U	166	3.98	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Phenanthrene	4.92	U	33.1	4.92	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Anthracene	1.27	U	33.1	1.27	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibutylphthalate	2.58	U	66.3	2.58	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluoranthene	3.09	U	33.1	3.09	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzidine	8.97	U	328	8.97	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pyrene	1.82	U	33.1	1.82	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dichlorobenzidine, 3,3'-	10.1	U	33.1	10.1	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]anthracene	1.37	U	33.1	1.37	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Di (2-ethylhexyl)phthalate	5.34	U	33.1	5.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Chrysene	1.01	U	33.1	1.01	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[b]fluoranthene	1.71	U	33.1	1.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[k]fluoranthene	1.48	U	33.1	1.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]pyrene	1.60	U	33.1	1.60	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Indeno[1,2,3-cd]pyrene	3.48	U	33.1	3.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibenz(a,h)anthracene	3.61	U	33.1	3.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[g,h,i]perylene	5.04	U	33.1	5.04	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209491-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-300979/1-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	8.79	U	33.1	8.79	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Thiophene, tetrahydro-, 1,1-dioxide	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		10 - 148	08/12/20 09:49	08/17/20 08:25	1
2-Fluorobiphenyl	90		38 - 130	08/12/20 09:49	08/17/20 08:25	1
2-Fluorophenol	84		25 - 132	08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene-d5	89		10 - 155	08/12/20 09:49	08/17/20 08:25	1
Terphenyl-d14	113		53 - 134	08/12/20 09:49	08/17/20 08:25	1
Phenol-d5 (Surr)	84		27 - 130	08/12/20 09:49	08/17/20 08:25	1

Lab Sample ID: LCS 600-300979/24-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	663	603.2		ug/Kg		91	50 - 150
N-Nitrosopyrrolidine	663	640.3		ug/Kg		97	50 - 150
N-Nitrosodi-n-butylamine	663	504.6		ug/Kg		76	50 - 150
Pentachlorobenzene	663	570.9		ug/Kg		86	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	99		10 - 148
2-Fluorobiphenyl	95		38 - 130
2-Fluorophenol	87		25 - 132
Nitrobenzene-d5	91		10 - 155
Terphenyl-d14	116		53 - 134
Phenol-d5 (Surr)	89		27 - 130

Lab Sample ID: LCS 600-300979/25-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thiophene, tetrahydro-, 1,1-dioxide	1330	1839	E	ug/Kg		138	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	56		10 - 148
2-Fluorobiphenyl	85		38 - 130
2-Fluorophenol	73		25 - 132
Nitrobenzene-d5	84		10 - 155
Terphenyl-d14	109		53 - 134
Phenol-d5 (Surr)	79		27 - 130

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209491-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	663	620.7		ug/Kg		94	29 - 130
Bis(2-chloroethyl)ether	663	632.1		ug/Kg		95	40 - 130
Hexachloroethane	663	616.4		ug/Kg		93	37 - 130
Nitrobenzene	663	664.3		ug/Kg		100	42 - 130
Isophorone	663	669.6		ug/Kg		101	39 - 130
2,4-Dichlorophenol	663	685.5		ug/Kg		103	38 - 130
Naphthalene	663	645.1		ug/Kg		97	40 - 130
Hexachlorobutadiene	663	643.5		ug/Kg		97	36 - 130
2-Methylnaphthalene	663	669.4		ug/Kg		101	43 - 130
1-Methylnaphthalene	663	645.4		ug/Kg		97	43 - 130
1,2,4,5-Tetrachlorobenzene	663	672.6		ug/Kg		101	37 - 130
Hexachlorocyclopentadiene	663	594.1		ug/Kg		90	10 - 130
2,4,6-Trichlorophenol	663	691.8		ug/Kg		104	39 - 130
2,4,5-Trichlorophenol	663	714.3		ug/Kg		108	41 - 130
Dimethyl phthalate	663	732.0		ug/Kg		110	40 - 130
Acenaphthylene	663	717.5		ug/Kg		108	39 - 130
2,6-Dinitrotoluene	663	718.6		ug/Kg		108	44 - 130
Acenaphthene	663	691.9		ug/Kg		104	42 - 130
Dinitrophenols	1330	1084		ug/Kg		82	15 - 130
2,4-Dinitrotoluene	663	719.1		ug/Kg		109	45 - 130
Diethyl phthalate	663	753.6		ug/Kg		114	50 - 130
Fluorene	663	722.7		ug/Kg		109	46 - 130
Dinitro-o-cresol	1330	1237		ug/Kg		93	38 - 130
N-Nitrosodiphenylamine	663	778.1		ug/Kg		117	48 - 130
Diphenylhydrazine, 1,2-	663	789.2		ug/Kg		119	50 - 130
Hexachlorobenzene	663	733.7		ug/Kg		111	44 - 130
Atrazine	663	523.8		ug/Kg		79	10 - 140
Pentachlorophenol	1330	1166		ug/Kg		88	40 - 130
Phenanthrene	663	759.4		ug/Kg		115	51 - 130
Anthracene	663	775.6		ug/Kg		117	51 - 130
Dibutylphthalate	663	860.8		ug/Kg		130	51 - 135
Fluoranthene	663	763.4		ug/Kg		115	53 - 130
Benzidine	3310	861.3		ug/Kg		26	10 - 130
Pyrene	663	785.6		ug/Kg		119	53 - 130
Dichlorobenzidine, 3,3'-	663	456.2		ug/Kg		69	13 - 146
Benzo[a]anthracene	663	760.5		ug/Kg		115	54 - 130
Di (2-ethylhexyl)phthalate	663	842.8		ug/Kg		127	41 - 145
Chrysene	663	776.4		ug/Kg		117	52 - 130
Benzo[b]fluoranthene	663	733.1		ug/Kg		111	41 - 139
Benzo[k]fluoranthene	663	726.2		ug/Kg		110	42 - 134
Benzo[a]pyrene	663	719.7		ug/Kg		109	44 - 131
Indeno[1,2,3-cd]pyrene	663	738.7		ug/Kg		111	35 - 146
Dibenz(a,h)anthracene	663	775.0		ug/Kg		117	40 - 137
Benzo[g,h,i]perylene	663	778.5		ug/Kg		117	38 - 142
bis (2-chloroisopropyl) ether	663	638.6		ug/Kg		96	38 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	100		10 - 148

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209491-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	98		38 - 130
2-Fluorophenol	91		25 - 132
Nitrobenzene-d5	95		10 - 155
Terphenyl-d14	112		53 - 134
Phenol-d5 (Surr)	93		27 - 130

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-500724/1-A

Matrix: Solid

Analysis Batch: 501018

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 500724

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	Result	Qualifier					08/18/20 13:25	08/20/20 15:59	1
	12.0	U	66.0	12.0	ug/Kg				
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	%Recovery	Qualifier					08/18/20 13:25	08/20/20 15:59	1
	75		30 - 164						

Lab Sample ID: LCS 400-500724/2-A

Matrix: Solid

Analysis Batch: 501018

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 500724

Analyte		Spike	LCS	LCS	Unit	D	%Rec	%Rec.
Prometon		Added	Result	Qualifier	ug/Kg		76	Limits
		333	252.5					40 - 140
Surrogate	LCS	LCS	Limits					
Triphenylphosphate	%Recovery	Qualifier						
	87		30 - 164					

Lab Sample ID: 600-209491-2 MS

Matrix: Solid

Analysis Batch: 501018

Client Sample ID: CELL21-SQUARE208-S-2-3-200807

Prep Type: Total/NA

Prep Batch: 500724

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
Prometon	Result	Qualifier	Added	Result	Qualifier	ug/Kg	✱	91	Limits
	13.5	U	373	337.7					40 - 140
Surrogate	MS	MS	Limits						
Triphenylphosphate	%Recovery	Qualifier							
	87		30 - 164						

Lab Sample ID: 600-209491-2 MSD

Matrix: Solid

Analysis Batch: 501018

Client Sample ID: CELL21-SQUARE208-S-2-3-200807

Prep Type: Total/NA

Prep Batch: 500724

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD
Prometon	Result	Qualifier	Added	Result	Qualifier	ug/Kg	✱	78	Limits	RPD Limit
	13.5	U	380	297.4					40 - 140	13 50
Surrogate	MSD	MSD	Limits							
Triphenylphosphate	%Recovery	Qualifier								
	72		30 - 164							

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209491-1

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

Lab Sample ID: MB 600-300806/1-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg		08/10/20 15:56	08/13/20 11:51	1
C28-C36	4.97	U	4.97	4.97	mg/Kg		08/10/20 15:56	08/13/20 11:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	125		60 - 140				08/10/20 15:56	08/13/20 11:51	1

Lab Sample ID: LCS 600-300806/2-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
Diesel Range Organics [C10-C28]	66.6	70.64		mg/Kg		106	66 - 134	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
o-Terphenyl	131		60 - 140					

Lab Sample ID: LCSD 600-300806/3-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300806

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	%Rec.	RPD	Limit
Diesel Range Organics [C10-C28]	66.6	75.11		mg/Kg		113	66 - 134		6	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
o-Terphenyl	131		60 - 140							

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 600-300862/1-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.30	U	1.69	1.30	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, beta-	1.02	U	1.69	1.02	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, delta-	0.847	U	1.69	0.847	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, alpha-	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, gamma-	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Chlordane (technical)	23.3	U	74.7	23.3	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
DDT	1.84	U	3.29	1.84	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Dieldrin	1.38	U	3.29	1.38	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan I	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan II	1.50	U	3.29	1.50	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan sulfate	1.67	U	3.29	1.67	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin	1.52	U	3.29	1.52	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin aldehyde	1.55	U	3.29	1.55	ug/Kg		08/11/20 08:51	08/11/20 19:37	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209491-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 600-300862/1-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor epoxide	1.17	U	1.69	1.17	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Toxaphene	72.8	U	169	72.8	ug/Kg		08/11/20 08:51	08/11/20 19:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	127		47 - 150	08/11/20 08:51	08/11/20 19:37	1
Tetrachloro-m-xylene	116		50 - 143	08/11/20 08:51	08/11/20 19:37	1

Lab Sample ID: LCS 600-300862/2-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aldrin	16.6	18.06		ug/Kg		109	42 - 150
Hexachlorocyclohexane, beta-	16.6	18.03		ug/Kg		108	32 - 150
Hexachlorocyclohexane, delta-	16.6	20.49		ug/Kg		123	33 - 150
Hexachlorocyclohexane, alpha-	16.6	18.14		ug/Kg		109	63 - 130
Hexachlorocyclohexane, gamma-	16.6	18.30		ug/Kg		110	36 - 150
DDT	16.6	22.31		ug/Kg		134	46 - 150
Dieldrin	16.6	18.72		ug/Kg		113	42 - 150
Endosulfan I	16.6	13.84		ug/Kg		83	37 - 150
Endosulfan II	16.6	18.94		ug/Kg		114	43 - 150
Endosulfan sulfate	16.6	20.02		ug/Kg		120	32 - 150
Endrin	16.6	20.38		ug/Kg		123	41 - 150
Endrin aldehyde	16.6	22.48		ug/Kg		135	42 - 150
Heptachlor	16.6	18.17		ug/Kg		109	35 - 150
Heptachlor epoxide	16.6	17.12		ug/Kg		103	42 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	76		47 - 150
Tetrachloro-m-xylene	74		50 - 143

Lab Sample ID: LCSD 600-300862/3-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limit	RPD
Aldrin	16.6	17.36		ug/Kg		104	42 - 150	4
Hexachlorocyclohexane, beta-	16.6	18.09		ug/Kg		109	32 - 150	0
Hexachlorocyclohexane, delta-	16.6	20.47		ug/Kg		123	33 - 150	0
Hexachlorocyclohexane, alpha-	16.6	16.93		ug/Kg		102	63 - 130	7
Hexachlorocyclohexane, gamma-	16.6	17.29		ug/Kg		104	36 - 150	6
DDT	16.6	22.58		ug/Kg		136	46 - 150	1
Dieldrin	16.6	18.96		ug/Kg		114	42 - 150	1
Endosulfan I	16.6	14.22		ug/Kg		86	37 - 150	3
Endosulfan II	16.6	18.23		ug/Kg		110	43 - 150	4
Endosulfan sulfate	16.6	20.67		ug/Kg		124	32 - 150	3

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209491-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 600-300862/3-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin	16.6	21.64		ug/Kg		130	41 - 150	6	20
Endrin aldehyde	16.6	23.30		ug/Kg		140	42 - 150	4	20
Heptachlor	16.6	16.75		ug/Kg		101	35 - 150	8	20
Heptachlor epoxide	16.6	16.99		ug/Kg		102	42 - 150	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	104		47 - 150
Tetrachloro-m-xylene	89		50 - 143

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/11/20 11:50	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/11/20 11:50	1

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/12/20 02:57	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/12/20 02:57	1

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	98.87		mg/Kg		99	90 - 110
Nitrite as N	100	101.4		mg/Kg		101	90 - 110

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	91.93		mg/Kg		92	90 - 110
Nitrite as N	100	100.5		mg/Kg		100	90 - 110

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			08/11/20 11:50	1
Fluoride	0.601	U	2.00	0.601	mg/Kg			08/11/20 11:50	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209491-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.957	U	5.00	0.957	mg/Kg			08/11/20 11:50	1

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	193.0		mg/Kg		97	90 - 110
Fluoride	75.0	82.00		mg/Kg		109	90 - 110
Sulfate	200	193.9		mg/Kg		97	90 - 110

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-505436/1-A

Matrix: Solid

Analysis Batch: 505596

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505436

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		08/12/20 15:04	08/13/20 16:41	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		08/12/20 15:04	08/13/20 16:41	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		08/12/20 15:04	08/13/20 16:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	102		83 - 122	08/12/20 15:04	08/13/20 16:41	1

Lab Sample ID: LCS 280-505436/2-A

Matrix: Solid

Analysis Batch: 505596

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505436

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	1.051		mg/Kg		105	80 - 124
2,4,6-Trinitrotoluene	1.00	1.050		mg/Kg		105	80 - 120

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

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: MB 280-505376/1-A

Matrix: Solid

Analysis Batch: 506026

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		08/12/20 11:00	08/20/20 14:31	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209491-1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS (Continued)

Lab Sample ID: LCS 280-505376/2-A

Matrix: Solid

Analysis Batch: 506026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5330		ug/Kg		107	80 - 120

Lab Sample ID: DLCK 280-506024/12

Matrix: Solid

Analysis Batch: 506024

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	0.04997	J	ug/L		100	70 - 130

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-500633/14

Matrix: Solid

Analysis Batch: 500633

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	0.4920	J	ug/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4537	J	ug/L		100	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		92	70 - 130

Surrogate	DLCK %Recovery	DLCK Qualifier	Limits
13C8 PFOA	108		57 - 153
13C8 PFOS	91		70 - 130

Lab Sample ID: MB 280-505864/1-A

Matrix: Solid

Analysis Batch: 506717

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505864

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		08/17/20 14:49	08/24/20 11:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		08/17/20 14:49	08/24/20 11:46	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		08/17/20 14:49	08/24/20 11:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	08/17/20 14:49	08/24/20 11:46	1
13C8 PFOS	94		70 - 130	08/17/20 14:49	08/24/20 11:46	1

Lab Sample ID: LCS 280-505864/2-A

Matrix: Solid

Analysis Batch: 506717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	18.81		ug/Kg		94	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	16.81		ug/Kg		92	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	18.69		ug/Kg		101	70 - 130

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209491-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 280-505864/2-A

Matrix: Solid

Analysis Batch: 506717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505864

Surrogate	LCS %Recovery	LCS Qualifier	Limits
13C8 PFOA	101		57 - 153
13C8 PFOS	98		70 - 130

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-481632/1-A ^2

Matrix: Solid

Analysis Batch: 481844

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 481632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0729	U	0.195	0.0729	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Arsenic	0.389	U	0.973	0.389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Barium	0.486	U	1.95	0.486	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Beryllium	0.0389	U	0.0973	0.0389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Cadmium	0.0233	U	0.0486	0.0233	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Chromium	0.438	U	0.973	0.438	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Iron	5.84	U	11.7	5.84	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Copper	0.389	U	0.973	0.389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Manganese	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Lead	0.122	U	0.292	0.122	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Antimony	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Selenium	0.311	U	0.486	0.311	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Thallium	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Zinc	1.95	U	4.86	1.95	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Uranium	0.0389	U	0.0973	0.0389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2

Lab Sample ID: LCSSRM 160-481632/3-A ^10

Matrix: Solid

Analysis Batch: 481844

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 481632

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	40.3	37.10		mg/Kg		92.1	69.2 - 130.8
Arsenic	95.5	92.41		mg/Kg		96.8	70.1 - 129.8
Barium	300	273.8		mg/Kg		91.3	75.0 - 125.0
Beryllium	103	99.40		mg/Kg		96.5	75.0 - 125.2
Cadmium	135	134.8		mg/Kg		99.8	125. - 74.82
Chromium	147	137.0		mg/Kg		93.2	70.1 - 129.9
Iron	14400	11610		mg/Kg		80.6	35.8 - 164.6
Copper	150	155.4		mg/Kg		103.6	75.3 - 125.3
Manganese	677	697.6		mg/Kg		103.0	78.1 - 122.0
Lead	92.3	89.28		mg/Kg		96.7	70.0 - 130.0

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209491-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 160-481632/3-A ^10

Matrix: Solid

Analysis Batch: 481844

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 481632

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	120	60.58		mg/Kg		50.5	19.0 - 251.7
Selenium	42.0	41.47		mg/Kg		98.7	55.7 - 144.5
Thallium	83.1	83.63		mg/Kg		100.6	65.3 - 134.8
Zinc	369	375.6		mg/Kg		101.8	69.9 - 130.1
Uranium	70.1	67.82		mg/Kg		96.8	64.9 - 135.0

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 600-302704/7-A

Matrix: Solid

Analysis Batch: 302818

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 302704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00341	U	0.0162	0.00341	mg/Kg		09/02/20 13:16	09/03/20 13:22	1

Lab Sample ID: LCS 600-302704/8-A

Matrix: Solid

Analysis Batch: 302818

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 302704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.2549		mg/Kg		110	70 - 130

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: LB 600-301322/1-A

Matrix: Solid

Analysis Batch: 301367

Client Sample ID: Method Blank

Prep Type: 7 Day Leach

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			08/17/20 11:57	1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 600-301738/1-A

Matrix: Solid

Analysis Batch: 301760

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00150	U	0.0100	0.00150	mg/Kg		08/20/20 13:55	08/20/20 17:40	1

Lab Sample ID: LCS 600-301738/2-A

Matrix: Solid

Analysis Batch: 301760

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.1007		mg/Kg		101	90 - 110

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209491-1

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation)

Lab Sample ID: MB 600-301825/1-A

Matrix: Solid

Analysis Batch: 301847

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.00419	U	0.00500	0.00419	mg/Kg		08/21/20 12:16	08/21/20 13:43	1

Lab Sample ID: LCS 600-301825/2-A

Matrix: Solid

Analysis Batch: 301847

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.100	0.09383		mg/Kg		94	90 - 110

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-479639/1-A

Matrix: Solid

Analysis Batch: 481714

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 479639

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05851	U	0.184	0.184	1.00	0.317	pCi/g	08/17/20 17:22	09/08/20 10:45	1
Radium-228	0.1048	U	0.195	0.196		0.306	pCi/g	08/17/20 17:22	09/08/20 10:45	1
Combined Radium 226 + 228	0.1633	U	0.268	0.269		0.317	pCi/g	08/17/20 17:22	09/08/20 10:45	1

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209491-1

GC/MS VOA

Prep Batch: 300996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	5030B	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	5030B	

Analysis Batch: 301050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	8260B	300996
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8260B	300996
MB 600-301050/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-301050/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-301050/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 300979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	3546	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300979/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 301300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-300979/1-A	Method Blank	Total/NA	Solid	8270C LL	300979
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979

Analysis Batch: 301390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	8270C LL	300979
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8270C LL	300979

Prep Batch: 500724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	3546	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	3546	
MB 400-500724/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-500724/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-209491-2 MS	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	3546	
600-209491-2 MSD	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	3546	

Analysis Batch: 501018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	8270D	500724
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8270D	500724
MB 400-500724/1-A	Method Blank	Total/NA	Solid	8270D	500724
LCS 400-500724/2-A	Lab Control Sample	Total/NA	Solid	8270D	500724
600-209491-2 MS	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8270D	500724
600-209491-2 MSD	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8270D	500724

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209491-1

GC VOA

Prep Batch: 300717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	5030B	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	5030B	

Analysis Batch: 301053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8015B	300717

Analysis Batch: 301188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	8015B	300717

GC Semi VOA

Prep Batch: 300806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	3546	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300806/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 300862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	3546	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300862/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 300913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	8081A	300862
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8081A	300862
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8081A	300862
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	8081A	300862
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	300862

Analysis Batch: 301085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	8015B	300806
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8015B	300806
MB 600-300806/1-A	Method Blank	Total/NA	Solid	8015B	300806
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	8015B	300806
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300806

Analysis Batch: 301103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	8082	300862
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8082	300862

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209491-1

HPLC/IC

Analysis Batch: 300880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Soluble	Solid	300.0	300916
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

Analysis Batch: 300881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Soluble	Solid	300.0	300916
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

Leach Batch: 300916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Soluble	Solid	DI Leach	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Soluble	Solid	DI Leach	
MB 600-300916/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

ISM Prep Batch: 505294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	Increment, prep	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	Increment, prep	

Prep Batch: 505436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	8330B	505294
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8330B	505294
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 505596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	8330B	505436
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8330B	505436
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	505436
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	505436

LCMS

Analysis Batch: 500633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-500633/14	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Prep Batch: 505376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	6860	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	6860	
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	

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QC Association Summary

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

Job ID: 600-209491-1

LCMS (Continued)

Prep Batch: 505376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 505864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	PFC leach	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	PFC leach	
MB 280-505864/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 506024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-506024/12	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 506026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	6860	505376
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	6860	505376
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	505376
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	505376

Analysis Batch: 506717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
MB 280-505864/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	505864
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	505864

Metals

Prep Batch: 302704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	7471B	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	7471B	
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 302818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	7471B	302704
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	7471B	302704
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	302704
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	302704

Prep Batch: 481632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	3050B	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	3050B	
MB 160-481632/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCSSRM 160-481632/3-A ^1	Lab Control Sample	Total/NA	Solid	3050B	

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QC Association Summary

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

Job ID: 600-209491-1

Metals

Analysis Batch: 481844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	6020	481632
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	6020	481632
MB 160-481632/1-A ^2	Method Blank	Total/NA	Solid	6020	481632
LCSSRM 160-481632/3-A ^1	Lab Control Sample	Total/NA	Solid	6020	481632

General Chemistry

Analysis Batch: 300956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	2540B	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	2540B	

Leach Batch: 301322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	7 Day Leach	Solid	335.521	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	7 Day Leach	Solid	335.521	
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	335.521	

Analysis Batch: 301367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
600-209491-2	CELL21-SQUARE208-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	2540 C-1997	301322

Prep Batch: 301738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	9012B	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	9012B	
MB 600-301738/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 600-301738/2-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 301760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	9012B	301738
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	9012B	301738
MB 600-301738/1-A	Method Blank	Total/NA	Solid	9012B	301738
LCS 600-301738/2-A	Lab Control Sample	Total/NA	Solid	9012B	301738

Prep Batch: 301825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
MB 600-301825/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 600-301825/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 301847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	9066	301825
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	9066	301825
MB 600-301825/1-A	Method Blank	Total/NA	Solid	9066	301825
LCS 600-301825/2-A	Lab Control Sample	Total/NA	Solid	9066	301825

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QC Association Summary

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

Job ID: 600-209491-1

General Chemistry

Analysis Batch: 302075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	9045D	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	9045D	
LCS 600-302075/1	Lab Control Sample	Total/NA	Solid	9045D	

Rad

Leach Batch: 479217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	Dry and Grind	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	Dry and Grind	

Prep Batch: 479639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479217
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479217
MB 160-479639/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE155-S-2-3-200807

Lab Sample ID: 600-209491-1

Date Collected: 08/07/20 15:20

Matrix: Solid

Date Received: 08/08/20 10:05

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					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.67 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/14/20 01:53	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.05 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			294.6 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481708	09/08/20 17:29	SCB	TAL SL

Client Sample ID: CELL21-SQUARE155-S-2-3-200807

Lab Sample ID: 600-209491-1

Date Collected: 08/07/20 15:20

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.80 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 16:22	WS1	TAL HOU
Total/NA	Prep	3546			15.06 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301390	08/17/20 18:25	RP	TAL HOU
Total/NA	Prep	3546			15.26 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 18:04	PP1	TAL PEN
Total/NA	Prep	5030B			9.48 g	10 mL	300717	08/13/20 07:54	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301188	08/14/20 11:42	WS1	TAL HOU
Total/NA	Prep	3546			10.01 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 22:32	RJV	TAL HOU
Total/NA	Prep	3546			15.07 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/12/20 01:47	JAL	TAL HOU
Total/NA	Prep	3546			15.07 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			301103	08/13/20 12:30	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/12/20 02:16	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/12/20 02:16	W1N	TAL HOU
Total/NA	Prep	6860			10.26 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 16:45	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.65 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 15:17	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5739 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 20:08	DAS	TAL SL
Total/NA	Prep	7471B			0.65 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 14:22	DCL	TAL HOU
Total/NA	Prep	9012B			0.508 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:50	AML	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE155-S-2-3-200807

Lab Sample ID: 600-209491-1

Date Collected: 08/07/20 15:20

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/Phenol			0.501 g	50.0 mL	301825	08/21/20 12:16	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301847	08/21/20 13:57	AML	TAL HOU

Client Sample ID: CELL21-SQUARE208-S-2-3-200807

Lab Sample ID: 600-209491-2

Date Collected: 08/07/20 16:00

Matrix: Solid

Date Received: 08/08/20 10:05

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					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.71 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/14/20 02:16	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.18 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			340.7 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481711	09/08/20 17:31	SCB	TAL SL

Client Sample ID: CELL21-SQUARE208-S-2-3-200807

Lab Sample ID: 600-209491-2

Date Collected: 08/07/20 16:00

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.64 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 16:46	WS1	TAL HOU
Total/NA	Prep	3546			15.04 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301390	08/17/20 18:49	RP	TAL HOU
Total/NA	Prep	3546			15.27 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 17:39	PP1	TAL PEN
Total/NA	Prep	5030B			10.23 g	10 mL	300717	08/13/20 07:54	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 16:35	WS1	TAL HOU
Total/NA	Prep	3546			10.02 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 23:05	RJV	TAL HOU
Total/NA	Prep	3546			15.05 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/12/20 02:12	JAL	TAL HOU
Total/NA	Prep	3546			15.05 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			301103	08/13/20 12:56	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/12/20 02:36	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/12/20 02:36	W1N	TAL HOU
Total/NA	Prep	6860			10.14 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 16:50	TMC	TAL DEN

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE208-S-2-3-200807

Lab Sample ID: 600-209491-2

Date Collected: 08/07/20 16:00

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFC leach			10.61 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 15:26	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5637 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 20:12	DAS	TAL SL
Total/NA	Prep	7471B			0.61 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 14:24	DCL	TAL HOU
Total/NA	Prep	9012B			0.558 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:51	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.503 g	50.0 mL	301825	08/21/20 12:16	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301847	08/21/20 13:59	AML	TAL HOU

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

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

Job ID: 600-209491-1

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-20-26	10-31-20
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
2540 C-1997		Solid	Total Dissolved Solids
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	C28-C36
8260B	5030B	Solid	1,3-Dichloropropene, Total
8270C LL	3546	Solid	1-Methylnaphthalene
8270C LL	3546	Solid	Atrazine
8270C LL	3546	Solid	Thiophene, tetrahydro-, 1,1-dioxide
9045D		Solid	pH

Laboratory: Eurofins TestAmerica, Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-21
Alaska (UST)	State	18-001	02-08-21
Arizona	State	AZ0713	12-20-20
Arkansas DEQ	State	19-047-0	06-01-21
California	State	2513	01-08-21
Connecticut	State	PH-0686	09-30-20
Florida	NELAP	E87667-57	07-01-21
Georgia	State	4025-011	01-09-21
Illinois	NELAP	2000172019-1	04-30-21
Iowa	State	IA#370	12-01-20
Kansas	NELAP	E-10166	04-30-21
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-21
Maine	State	2019011 (231)	03-03-21
Minnesota	NELAP	1788752	12-31-20
Nevada	State	CO000262020-1	07-31-21
New Hampshire	NELAP	205319	04-29-21
New Jersey	NELAP	190002	06-30-21
New York	NELAP	59923	04-01-21
North Carolina (WW/SW)	State	358	12-31-20
North Dakota	State	R-034	01-08-21
Oklahoma	State	2018-006	08-31-20
Oregon	NELAP	4025-011	01-08-21
Pennsylvania	NELAP	013	07-31-21
South Carolina	State	72002001	01-08-21
Texas	NELAP	T104704183-19-17	09-30-20
US Fish & Wildlife	US Federal Programs	058448	08-01-21
USDA	US Federal Programs	P330-18-00099	03-26-21
Utah	NELAP	QUAN5	06-30-13 *

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

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209491-1

Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, Denver (Continued)

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

Authority	Program	Identification Number	Expiration Date
Utah	NELAP	CO000262019-11	07-31-21
Virginia	NELAP	10490	06-14-21
Washington	State	C583-19	08-03-21
West Virginia DEP	State	354	11-30-20
Wisconsin	State	999615430	08-31-20
Wyoming (UST)	A2LA	2907.01	10-31-21

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-21
Kansas	NELAP	E-10253	10-31-20
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	09-30-20

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209491-1

Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, 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	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	09-13-20
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	09-14-20
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-20

Eurofins TestAmerica, Houston

Chain of Custody Record

Eurotins TestAmerica, Houston
5310 Rollway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5546

[illegible]

Eurofins TestAmerica Houston

Loc: 600
209491Environment Testing
TestAmerica

Sample Receipt Checklist

20 AUG 6 10:05

JOB NUMBER: _____

Date/Time Received: _____

CLIENT: ArcadisUNPACKED BY: JPCARRIER/DRIVER: FedexCustody Seal Present: ☒ YES ☐ NONumber of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
3075	Y / N	Y / N	1.9	680	+0.1	2.0
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				8/8/20

CF = correction factor

Samples received on ice? ☒ YES ☐ NOLABORATORY PRESERVATION OF SAMPLES REQUIRED: ☒ NO ☐ YESBase samples are >pH 12: ☐ YES ☐ NOAcid preserved are <pH 2: ☐ YES ☐ NOTX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot # _____

VOA headspace acceptable (5-6mm): ☐ YES ☐ NO ☒ NADid samples meet the laboratory's standard conditions of sample acceptability upon receipt? ☒ YES ☐ NO

COMMENTS:

8/8/20

Eurofins TestAmerica, Houston
5310 Railway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

 eurofins

Environment Testing
America

[illegible]

Ver: 01/16/2019

Chain of Custody Record

 eurofins

Environment Testing,
America

[illegible]

Ver: 01/16/2019

6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444

Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record



Environment Testing
America

[illegible]

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-209491-1

Login Number: 209491

List Source: Eurofins TestAmerica, Houston

List Number: 1

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	2.0
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.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-209491-1

Login Number: 209491

List Number: 3

Creator: Schade, Daniel B

List Source: Eurofins TestAmerica, Denver

List Creation: 08/11/20 02:31 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.	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").	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: 600-209491-1

Login Number: 209491

List Number: 4

Creator: Whitley, Adrian

List Source: Eurofins TestAmerica, Pensacola

List Creation: 08/12/20 05:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1075430
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.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	6.5°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: 600-209491-1

Login Number: 209491

List Number: 2

Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/11/20 01:13 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	



Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-209483-1

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:
9/23/2020 10:07:16 AM

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

LINKS

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-209483-1

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Case Narrative

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

Job ID: 600-209483-1

Job ID: 600-209483-1

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative 600-209483-1

Comments

The report was revised on 09/23/20 to correct the sample ID for samples 600-209483-1; -2; -3 per the COC.

Receipt

The samples were received on 8/7/2020 9:20 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.7° C.

GC/MS VOA

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 600-300707 recovered outside control limits for the following analytes: Bromomethane.

Method 8260B: The method blank for analytical batch 600-300707 contained Chloroform 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.

GC/MS Semi VOA

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-500496 and analytical batch 400-500677 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301300 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301300/3).

Method 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 600-300979 and analytical batch 600-301300 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

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

GC VOA

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

GC Semi VOA

Methods 8081A, 8081B: The continuing calibration verification (CCV) associated with batch 600-300913 recovered above the upper control limit for 4,4-DDD(25.2%), 4,4-DDE(21.2%), and 4,4-DDT(17.7%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 600-300913/5).

Method 8082: The surrogate recovery for the blank associated with preparation batch 600-300862 and analytical batch 600-300977 was outside the upper control limits.

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

RAD

Method GA-01-R: Gamma Prep Batch 160-479981

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

Case Narrative

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

Job ID: 600-209483-1

Job ID: 600-209483-1 (Continued)**Laboratory: Eurofins TestAmerica, Houston (Continued)**

Pb-210	Po-210
Pb-210	Bi-210
Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

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.

CELL17-SQUARE86-5-2-3-200806 (600-209483-1), CELL18-SQUARE118-5-2-3-200806 (600-209483-2),
CELL18-SQUARE157-5-2-3-200806 (600-209483-3) and (600-209483-G-1-C DU)

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

Metals

Method 6020: analytical batch 160-479582

The internal standard was outside QC limits in the CCV and/or the CCB. All analytes were within acceptable limits, showing that there was no bias. Original results will be reported. (CCB 160-479582/125) and (CCV 160-479582/124)

Method 6020: preparation batch 160-479336 and analytical batch 160-479582

The following samples were diluted due to the abundance of non-target analytes: CELL17-SQUARE86-5-2-3-200806 (600-209483-1), CELL18-SQUARE157-5-2-3-200806 (600-209483-3), (600-209483-C-1-B MS ^20), (600-209483-C-1-C MSD ^20), (600-209483-C-1-A PDS ^20) and (600-209483-C-1-A SD ^100). Elevated reporting limits (RLs) are provided.

Method 6020: preparation batch 160-479336 and analytical batch 160-479582

The following sample(s) was diluted due to the nature of the sample matrix. Samples when run at a lesser dilution caused internal standard failure. : CELL18-SQUARE118-5-2-3-200806 (600-209483-2). Elevated reporting limits (RLs) are provided.

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-479336 and analytical batch 160-479582 were outside control limits for Barium and Antimony. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (600-209483-C-1-B MS ^20) and (600-209483-C-1-C MSD ^20)

Methods 6020, 6020B: preparation batch 160-479336 and analytical batch 160-480286

The following sample(s) was diluted due to the nature of the sample matrix. The samples when run at a lesser dilution caused internal standard failure. : CELL18-SQUARE118-5-2-3-200806 (600-209483-2). Elevated reporting limits (RLs) are provided.

Method 6020: The low level continuing calibration verification (CCVL) associated with batch 160-480286 recovered above the upper control

Case Narrative

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

Job ID: 600-209483-1

Job ID: 600-209483-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

limit for Uranium. The samples associated with this CCVL were below the reporting limit for the affected analytes; therefore, the data have been reported. (CCVL 160-480286/83)

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 300.0: The matrix spike duplicate (MSD) recoveries for preparation batch 600-300916 and analytical batch 600-300880 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: CELL17-SQUARE86-5-2-3-200806 (600-209483-1). Elevated reporting limits (RLs) are provided.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 600-300916 and analytical batch 600-300881 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: CELL17-SQUARE86-5-2-3-200806 (600-209483-1). Elevated reporting limits (RLs) are provided.

Methods 420.4, 9066: The method blank for preparation batch 600-301626 and analytical batch 600-301633 contained Phenols, Total 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.

Industrial Hygiene

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

Organic Prep

Methods Increment, prep: A deviation from the Standard Operating Procedure (SOP) occurred. As per client and PM instructions, ISM subsampling was not performed.

CELL17-SQUARE86-5-2-3-200806 (600-209483-1), CELL18-SQUARE118-5-2-3-200806 (600-209483-2), CELL18-SQUARE157-5-2-3-200806 (600-209483-3), (600-209483-I-2 DU), (600-209483-I-2 MS), (600-209483-I-2 MSD) and (600-209483-I-2 TRL)

In preparation batch 280-505447 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: CELL17-SQUARE86-5-2-3-200806 (600-209483-1), CELL18-SQUARE118-5-2-3-200806 (600-209483-2), CELL18-SQUARE157-5-2-3-200806 (600-209483-3), (600-209483-I-2 DU), (600-209483-I-2 MS), (600-209483-I-2 MSD) and (600-209483-I-2 TRL). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet.

In preparation batch 280-505447 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B.

Method PFC leach: The following samples were full of rocks and gravel. Aliquoting 10g of soil material was difficult.

CELL17-SQUARE86-5-2-3-200806 (600-209483-1), CELL18-SQUARE118-5-2-3-200806 (600-209483-2), CELL18-SQUARE157-5-2-3-200806 (600-209483-3), (600-209483-F-1 MS) and (600-209483-F-1 MSD)

preparation batch 280-505864

Case Narrative

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

Job ID: 600-209483-1

Job ID: 600-209483-1 (Continued)**Laboratory: Eurofins TestAmerica, Houston (Continued)**

PFC_Leach / PFC

Method PFC leach: The following samples required 2mL of 2.4M HCl to bring the pH below 7. CELL18-SQUARE118-5-2-3-200806 (600-209483-2) and CELL18-SQUARE157-5-2-3-200806 (600-209483-3)

preparation batch 280-505864

PFC_Leach / PFC

Method 3546: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: CELL17-SQUARE86-5-2-3-200806 (600-209483-1), CELL18-SQUARE118-5-2-3-200806 (600-209483-2) and CELL18-SQUARE157-5-2-3-200806 (600-209483-3). The reporting limits (RLs) have been adjusted proportionately.

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

Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209483-1

Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
8270D	Pesticides by GC/MS	SW846	TAL PEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
8081A	Organochlorine Pesticides (GC)	SW846	TAL HOU
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL HOU
2540 C-1997	Total Dissolved Solids (Dried at 180 °C)	SM	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
9012B	Cyanide, Total and/or Amenable	SW846	TAL HOU
9045D	pH	SW846	TAL HOU
9066	Phenolics (Colorimetric, 4-AAP with Distillation)	SW846	TAL HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
3050B	Preparation, Metals	SW846	TAL SL
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
3546	Microwave Extraction	SW846	TAL PEN
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471B	Mercury in Solid or Semi-Solid Waste (Manual Cold Vapor Technique)/Preparation	SW846	TAL HOU
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU
Distill/Phenol	Distillation, Phenolics	None	TAL HOU
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"

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

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.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Houston

Sample Summary

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

Job ID: 600-209483-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Solid	08/06/20 13:05	08/07/20 09:20	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Solid	08/06/20 13:36	08/07/20 09:20	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Solid	08/06/20 14:10	08/07/20 09:20	

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Lab Sample ID: 600-209483-1

Date Collected: 08/06/20 13:05

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 73.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.09	U	7.33	1.09	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
1,1,2,2-Tetrachloroethane	1.28	U	7.33	1.28	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
1,1,2-Trichloroethane	1.07	U	7.33	1.07	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
1,1-Dichloroethane	1.28	U	7.33	1.28	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
1,1-Dichloroethene	1.79	U	7.33	1.79	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
1,1-Dichloropropene	0.953	U	7.33	0.953	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
1,2,4-Trichlorobenzene	2.89	U	7.33	2.89	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
1,2-Dibromoethane	1.50	U	7.33	1.50	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
1,2-Dichlorobenzene	1.17	U	7.33	1.17	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
1,2-Dichloroethane	1.32	U	7.33	1.32	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
1,2-Dichloropropane	1.04	U	7.33	1.04	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
1,3-Dichloropropane, Total	0.850	U	7.33	0.850	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
1,4-Dichlorobenzene	0.968	U	7.33	0.968	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
1,4-Dioxane	91.0	U	7.33	91.0	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Acrolein	9.14	U	36.7	9.14	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Acrylonitrile	8.53	U	73.3	8.53	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Benzene	0.924	U	7.33	0.924	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Bromodichloromethane	0.968	U	7.33	0.968	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Bromomethane	1.22	U *	14.7	1.22	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Carbon tetrachloride	1.66	U	7.33	1.66	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Chloroform	1.47	J b	14.7	0.968	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Chloromethane	2.43	U	14.7	2.43	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
cis-1,2-Dichloroethene	1.22	U	7.33	1.22	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
cis-1,3-Dichloropropene	0.792	U	7.33	0.792	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Ethylbenzene	1.50	U	7.33	1.50	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Methyl tert-butyl ether	2.68	U	7.33	2.68	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Methylene Chloride	3.21	U	14.7	3.21	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Monochlorobenzene	1.41	U	7.33	1.41	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Styrene	1.04	U	7.33	1.04	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Tetrachloroethene	1.04	U	7.33	1.04	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Toluene	2.02	U	7.33	2.02	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
trans-1,2-Dichloroethene	1.67	U	7.33	1.67	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
trans-1,3-Dichloropropene	0.850	U	7.33	0.850	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Tribromomethane	2.01	U	7.33	2.01	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Trichloroethene	2.05	U	7.33	2.05	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Trichlorofluoromethane	0.968	U	14.7	0.968	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Vinyl chloride	1.32	U	14.7	1.32	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Xylenes, Total	1.66	U	7.33	1.66	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1
Dichlorodifluoromethane	2.26	U	7.33	2.26	ug/Kg	☆	08/08/20 08:54	08/08/20 09:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		61 - 130	08/08/20 08:54	08/08/20 09:26	1
Dibromofluoromethane	86		68 - 140	08/08/20 08:54	08/08/20 09:26	1
Toluene-d8 (Surr)	89		50 - 130	08/08/20 08:54	08/08/20 09:26	1
4-Bromofluorobenzene	107		57 - 140	08/08/20 08:54	08/08/20 09:26	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	5.66	U	45.0	5.66	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
N-Nitrosodiethylamine	9.70	U *	45.0	9.70	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Lab Sample ID: 600-209483-1

Date Collected: 08/06/20 13:05

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 73.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	2.23	U	45.0	2.23	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Hexachloroethane	3.12	U	45.0	3.12	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
N-Nitrosopyrrolidine	6.31	U *	45.0	6.31	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Nitrobenzene	4.00	U	45.0	4.00	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Isophorone	1.35	U	45.0	1.35	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
2,4-Dichlorophenol	5.23	U	45.0	5.23	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Naphthalene	1.82	U	45.0	1.82	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Hexachlorobutadiene	2.59	U	45.0	2.59	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
N-Nitrosodi-n-butylamine	22.5	U *	45.0	22.5	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
2-Methylnaphthalene	3.70	U	45.0	3.70	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
1-Methylnaphthalene	2.12	U	45.0	2.12	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
1,2,4,5-Tetrachlorobenzene	9.12	U	45.0	9.12	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Hexachlorocyclopentadiene	6.23	U	45.0	6.23	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
2,4,6-Trichlorophenol	3.62	U	45.0	3.62	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
2,4,5-Trichlorophenol	13.5	U	45.0	13.5	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Dimethyl phthalate	6.61	U	90.1	6.61	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Acenaphthylene	1.35	U	45.0	1.35	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
2,6-Dinitrotoluene	3.99	U	45.0	3.99	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Acenaphthene	1.95	U	45.0	1.95	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Dinitrophenols	6.38	U	135	6.38	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Pentachlorobenzene	5.42	U *	45.0	5.42	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
2,4-Dinitrotoluene	4.88	U	45.0	4.88	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Diethyl phthalate	11.4	U	90.1	11.4	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Fluorene	3.19	U	45.0	3.19	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Dinitro-o-cresol	6.73	U	230	6.73	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
N-Nitrosodiphenylamine	2.55	U	45.0	2.55	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Diphenylhydrazine, 1,2-	2.19	U	45.0	2.19	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Hexachlorobenzene	2.05	U	45.0	2.05	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Atrazine	6.78	U	45.0	6.78	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Pentachlorophenol	5.41	U	226	5.41	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Phenanthrene	6.69	U	45.0	6.69	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Anthracene	1.73	U	45.0	1.73	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Dibutylphthalate	9.74	J	90.1	3.50	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Fluoranthene	4.20	U	45.0	4.20	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Benzidine	12.2	U	446	12.2	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Pyrene	2.47	U	45.0	2.47	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Dichlorobenzidine, 3,3'-	13.7	U	45.0	13.7	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Benzo[a]anthracene	1.87	U	45.0	1.87	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Di (2-ethylhexyl)phthalate	21.4	J	45.0	7.26	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Chrysene	1.38	U	45.0	1.38	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Benzo[b]fluoranthene	2.32	U	45.0	2.32	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Benzo[k]fluoranthene	2.01	U	45.0	2.01	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Benzo[a]pyrene	2.18	U	45.0	2.18	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Indeno[1,2,3-cd]pyrene	4.73	U	45.0	4.73	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Dibenz(a,h)anthracene	4.91	U	45.0	4.91	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Benzo[g,h,i]perylene	6.85	U	45.0	6.85	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
bis (2-chloroisopropyl) ether	11.9	U	45.0	11.9	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1
Thiophene, tetrahydro-, 1,1-dioxide	22.5	U	45.0	22.5	ug/Kg	☆	08/12/20 09:49	08/17/20 10:01	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Lab Sample ID: 600-209483-1

Date Collected: 08/06/20 13:05

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 73.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	73		10 - 148	08/12/20 09:49	08/17/20 10:01	1
2-Fluorobiphenyl	52		38 - 130	08/12/20 09:49	08/17/20 10:01	1
2-Fluorophenol	44		25 - 132	08/12/20 09:49	08/17/20 10:01	1
Nitrobenzene-d5	46		10 - 155	08/12/20 09:49	08/17/20 10:01	1
Terphenyl-d14	111		53 - 134	08/12/20 09:49	08/17/20 10:01	1
Phenol-d5 (Surr)	48		27 - 130	08/12/20 09:49	08/17/20 10:01	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	15.7	U	86.6	15.7	ug/Kg	☼	08/17/20 09:48	08/18/20 18:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	60		30 - 164				08/17/20 09:48	08/18/20 18:35	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.804	U	1.37	0.804	mg/Kg	☼	08/08/20 07:14	08/08/20 10:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	82		70 - 130				08/08/20 07:14	08/08/20 10:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.51	J	6.76	2.31	mg/Kg	☼	08/10/20 15:56	08/13/20 13:34	1
C28-C36	30.6		6.76	6.76	mg/Kg	☼	08/10/20 15:56	08/13/20 13:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	101		60 - 140				08/10/20 15:56	08/13/20 13:34	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.77	U	2.30	1.77	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Hexachlorocyclohexane, beta-	1.38	U	2.30	1.38	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Hexachlorocyclohexane, delta-	1.15	U	2.30	1.15	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Hexachlorocyclohexane, alpha-	1.35	U	2.30	1.35	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Hexachlorocyclohexane, gamma-	1.26	U	2.30	1.26	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Chlordane (technical)	31.7	U	101	31.7	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
DDT	2.50	U	4.47	2.50	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Dieldrin	1.88	U	4.47	1.88	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Endosulfan I	1.35	U	2.30	1.35	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Endosulfan II	2.04	U	4.47	2.04	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Endosulfan sulfate	2.27	U	4.47	2.27	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Endrin	2.07	U	4.47	2.07	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Endrin aldehyde	2.11	U	4.47	2.11	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Heptachlor	1.26	U	2.30	1.26	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Heptachlor epoxide	1.58	U	2.30	1.58	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Toxaphene	98.9	U	230	98.9	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87		47 - 150				08/11/20 08:51	08/11/20 20:51	1
Tetrachloro-m-xylene	82		50 - 143				08/11/20 08:51	08/11/20 20:51	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Lab Sample ID: 600-209483-1

Date Collected: 08/06/20 13:05

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 73.6

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00217	U	0.0226	0.00217	mg/Kg	☆	08/11/20 08:51	08/12/20 14:26	1
PCB-1221	0.0117	U	0.0226	0.0117	mg/Kg	☆	08/11/20 08:51	08/12/20 14:26	1
PCB-1232	0.00907	U	0.0226	0.00907	mg/Kg	☆	08/11/20 08:51	08/12/20 14:26	1
PCB-1242	0.00168	U	0.0226	0.00168	mg/Kg	☆	08/11/20 08:51	08/12/20 14:26	1
PCB-1248	0.00337	U	0.0226	0.00337	mg/Kg	☆	08/11/20 08:51	08/12/20 14:26	1
PCB-1254	0.00299	U	0.0226	0.00299	mg/Kg	☆	08/11/20 08:51	08/12/20 14:26	1
PCB-1260	0.0183	U	0.0226	0.0183	mg/Kg	☆	08/11/20 08:51	08/12/20 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		10 - 150	08/11/20 08:51	08/12/20 14:26	1
DCB Decachlorobiphenyl	110		10 - 150	08/11/20 08:51	08/12/20 14:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	157		27.2	3.63	mg/Kg	☆		08/11/20 17:25	5
Nitrate as N	21.2		13.6	1.70	mg/Kg	☆		08/11/20 17:25	5
Fluoride	9.60	J	13.6	4.08	mg/Kg	☆		08/11/20 17:25	5
Nitrite as N	2.02	U	13.6	2.02	mg/Kg	☆		08/11/20 17:25	5
Sulfate	4630		339	65.0	mg/Kg	☆		08/20/20 20:32	50

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0224	U	0.0987	0.0224	mg/Kg		08/14/20 16:49	08/19/20 23:08	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0424	U	0.197	0.0424	mg/Kg		08/14/20 16:49	08/19/20 23:08	1
2,4,6-Trinitrotoluene	0.0303	U	0.0987	0.0303	mg/Kg		08/14/20 16:49	08/19/20 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	103		83 - 122	08/14/20 16:49	08/19/20 23:08	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	1.08		0.632	0.104	ug/Kg	☆	08/13/20 12:00	08/20/20 13:45	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.308	U	1.07	0.308	ug/Kg	☆	08/17/20 14:49	08/24/20 12:04	1
Perfluorohexanesulfonic acid (PFHxS)	0.375	U	1.07	0.375	ug/Kg	☆	08/17/20 14:49	08/24/20 12:04	1
Perfluorooctanesulfonic acid (PFOS)	0.187	U	1.07	0.187	ug/Kg	☆	08/17/20 14:49	08/24/20 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	08/17/20 14:49	08/24/20 12:04	1
13C8 PFOS	99		70 - 130	08/17/20 14:49	08/24/20 12:04	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.934	U	2.49	0.934	mg/Kg	☆	08/13/20 11:03	08/14/20 19:28	20
Arsenic	4.98	U	12.5	4.98	mg/Kg	☆	08/13/20 11:03	08/14/20 19:28	20
Barium	341		24.9	6.23	mg/Kg	☆	08/13/20 11:03	08/14/20 19:28	20
Beryllium	0.498	U	1.25	0.498	mg/Kg	☆	08/13/20 11:03	08/14/20 19:28	20
Cadmium	1.05		0.623	0.299	mg/Kg	☆	08/13/20 11:03	08/14/20 19:28	20
Chromium	5.60	U	12.5	5.60	mg/Kg	☆	08/13/20 11:03	08/14/20 19:28	20

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Lab Sample ID: 600-209483-1

Date Collected: 08/06/20 13:05

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 73.6

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3690		149	74.7	mg/Kg	☆	08/13/20 11:03	08/14/20 19:28	20
Copper	4.98	U	12.5	4.98	mg/Kg	☆	08/13/20 11:03	08/14/20 19:28	20
Manganese	37.6		6.23	2.49	mg/Kg	☆	08/13/20 11:03	08/14/20 19:28	20
Lead	3.40	J	3.74	1.56	mg/Kg	☆	08/13/20 11:03	08/14/20 19:28	20
Antimony	2.49	U	6.23	2.49	mg/Kg	☆	08/13/20 11:03	08/14/20 19:28	20
Selenium	3.99	U	6.23	3.99	mg/Kg	☆	08/13/20 11:03	08/14/20 19:28	20
Thallium	2.49	U	6.23	2.49	mg/Kg	☆	08/13/20 11:03	08/14/20 19:28	20
Zinc	24.9	U	62.3	24.9	mg/Kg	☆	08/13/20 11:03	08/14/20 19:28	20
Uranium	1.59		1.25	0.498	mg/Kg	☆	08/13/20 11:03	08/14/20 19:28	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00486	U	0.0231	0.00486	mg/Kg	☆	09/02/20 13:16	09/03/20 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.4		1.0	1.0	%			08/11/20 08:50	1
Percent Solids	73.6		1.0	1.0	%			08/11/20 08:50	1
Cyanide, Total	0.0231	U	0.154	0.0231	mg/Kg	☆	08/14/20 14:14	08/14/20 17:13	1
pH	8.0	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.566	U	0.675	0.566	mg/Kg	☆	08/19/20 16:29	08/19/20 20:34	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1030		20.0	20.0	mg/L			08/19/20 12:28	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	0.846		0.174	0.194	1.00	0.0981	pCi/g	08/20/20 11:43	09/12/20 09:55	1
Radium-228	-0.0113	U	0.0464	0.0464		0.423	pCi/g	08/20/20 11:43	09/12/20 09:55	1
Combined Radium 226 + 228	0.835		0.180	0.199		0.423	pCi/g	08/20/20 11:43	09/12/20 09:55	1

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Lab Sample ID: 600-209483-2

Date Collected: 08/06/20 13:36

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 91.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.831	U	5.62	0.831	ug/Kg	☆	08/08/20 08:54	08/08/20 09:49	1
1,1,2,2-Tetrachloroethane	0.977	U	5.62	0.977	ug/Kg	☆	08/08/20 08:54	08/08/20 09:49	1
1,1,2-Trichloroethane	0.820	U	5.62	0.820	ug/Kg	☆	08/08/20 08:54	08/08/20 09:49	1
1,1-Dichloroethane	0.977	U	5.62	0.977	ug/Kg	☆	08/08/20 08:54	08/08/20 09:49	1
1,1-Dichloroethene	1.37	U	5.62	1.37	ug/Kg	☆	08/08/20 08:54	08/08/20 09:49	1
1,1-Dichloropropene	0.730	U	5.62	0.730	ug/Kg	☆	08/08/20 08:54	08/08/20 09:49	1
1,2,4-Trichlorobenzene	2.21	U	5.62	2.21	ug/Kg	☆	08/08/20 08:54	08/08/20 09:49	1
1,2-Dibromoethane	1.15	U	5.62	1.15	ug/Kg	☆	08/08/20 08:54	08/08/20 09:49	1
1,2-Dichlorobenzene	0.899	U	5.62	0.899	ug/Kg	☆	08/08/20 08:54	08/08/20 09:49	1
1,2-Dichloroethane	1.01	U	5.62	1.01	ug/Kg	☆	08/08/20 08:54	08/08/20 09:49	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Lab Sample ID: 600-209483-2

Date Collected: 08/06/20 13:36

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.797	U	5.62	0.797	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
1,3-Dichloropropene, Total	0.651	U	5.62	0.651	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
1,4-Dichlorobenzene	0.741	U	5.62	0.741	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
1,4-Dioxane	69.7	U	562	69.7	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Acrolein	7.00	U	28.1	7.00	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Acrylonitrile	6.54	U	56.2	6.54	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Benzene	0.708	U	5.62	0.708	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Bromodichloromethane	0.741	U	5.62	0.741	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Bromomethane	0.932	U *	11.2	0.932	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Carbon tetrachloride	1.27	U	5.62	1.27	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Chloroform	1.07	J b	11.2	0.741	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Chloromethane	1.86	U	11.2	1.86	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
cis-1,2-Dichloroethene	0.932	U	5.62	0.932	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
cis-1,3-Dichloropropene	0.607	U	5.62	0.607	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Ethylbenzene	1.15	U	5.62	1.15	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Methyl tert-butyl ether	2.06	U	5.62	2.06	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Methylene Chloride	2.46	U	11.2	2.46	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Monochlorobenzene	1.08	U	5.62	1.08	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Styrene	0.797	U	5.62	0.797	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Tetrachloroethene	0.797	U	5.62	0.797	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Toluene	1.55	U	5.62	1.55	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
trans-1,2-Dichloroethene	1.28	U	5.62	1.28	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
trans-1,3-Dichloropropene	0.651	U	5.62	0.651	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Tribromomethane	1.54	U	5.62	1.54	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Trichloroethene	1.57	U	5.62	1.57	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Trichlorofluoromethane	0.741	U	11.2	0.741	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Vinyl chloride	1.01	U	11.2	1.01	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Xylenes, Total	1.27	U	5.62	1.27	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1
Dichlorodifluoromethane	1.73	U	5.62	1.73	ug/Kg	✱	08/08/20 08:54	08/08/20 09:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		61 - 130	08/08/20 08:54	08/08/20 09:49	1
Dibromofluoromethane	89		68 - 140	08/08/20 08:54	08/08/20 09:49	1
Toluene-d8 (Surr)	93		50 - 130	08/08/20 08:54	08/08/20 09:49	1
4-Bromofluorobenzene	111		57 - 140	08/08/20 08:54	08/08/20 09:49	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.54	U	36.1	4.54	ug/Kg	✱	08/12/20 09:49	08/17/20 10:24	1
N-Nitrosodiethylamine	7.79	U	36.1	7.79	ug/Kg	✱	08/12/20 09:49	08/17/20 10:24	1
Bis(2-chloroethyl)ether	1.79	U	36.1	1.79	ug/Kg	✱	08/12/20 09:49	08/17/20 10:24	1
Hexachloroethane	2.50	U	36.1	2.50	ug/Kg	✱	08/12/20 09:49	08/17/20 10:24	1
N-Nitrosopyrrolidine	5.06	U	36.1	5.06	ug/Kg	✱	08/12/20 09:49	08/17/20 10:24	1
Nitrobenzene	3.21	U	36.1	3.21	ug/Kg	✱	08/12/20 09:49	08/17/20 10:24	1
Isophorone	1.08	U	36.1	1.08	ug/Kg	✱	08/12/20 09:49	08/17/20 10:24	1
2,4-Dichlorophenol	4.20	U	36.1	4.20	ug/Kg	✱	08/12/20 09:49	08/17/20 10:24	1
Naphthalene	1.46	U	36.1	1.46	ug/Kg	✱	08/12/20 09:49	08/17/20 10:24	1
Hexachlorobutadiene	2.08	U	36.1	2.08	ug/Kg	✱	08/12/20 09:49	08/17/20 10:24	1
N-Nitrosodi-n-butylamine	18.1	U	36.1	18.1	ug/Kg	✱	08/12/20 09:49	08/17/20 10:24	1
2-Methylnaphthalene	2.97	U	36.1	2.97	ug/Kg	✱	08/12/20 09:49	08/17/20 10:24	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Lab Sample ID: 600-209483-2

Date Collected: 08/06/20 13:36

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 91.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	1.70	U	36.1	1.70	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
1,2,4,5-Tetrachlorobenzene	7.32	U	36.1	7.32	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Hexachlorocyclopentadiene	5.00	U	36.1	5.00	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
2,4,6-Trichlorophenol	2.91	U	36.1	2.91	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
2,4,5-Trichlorophenol	10.9	U	36.1	10.9	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Dimethyl phthalate	5.30	U	72.3	5.30	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Acenaphthylene	1.08	U	36.1	1.08	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
2,6-Dinitrotoluene	3.20	U	36.1	3.20	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Acenaphthene	1.56	U	36.1	1.56	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Dinitrophenols	5.12	U	108	5.12	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Pentachlorobenzene	4.35	U	36.1	4.35	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
2,4-Dinitrotoluene	3.91	U	36.1	3.91	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Diethyl phthalate	9.14	U	72.3	9.14	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Fluorene	2.56	U	36.1	2.56	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Dinitro-o-cresol	5.40	U	184	5.40	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
N-Nitrosodiphenylamine	2.05	U	36.1	2.05	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Diphenylhydrazine, 1,2-	1.76	U	36.1	1.76	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Hexachlorobenzene	1.65	U	36.1	1.65	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Atrazine	5.44	U	36.1	5.44	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Pentachlorophenol	4.34	U	181	4.34	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Phenanthrene	5.37	U	36.1	5.37	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Anthracene	1.39	U	36.1	1.39	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Dibutylphthalate	2.81	U	72.3	2.81	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Fluoranthene	3.37	U	36.1	3.37	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Benzidine	9.78	U	358	9.78	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Pyrene	1.98	U	36.1	1.98	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Dichlorobenzidine, 3,3'-	11.0	U	36.1	11.0	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Benzo[a]anthracene	1.50	U	36.1	1.50	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Di (2-ethylhexyl)phthalate	5.82	U	36.1	5.82	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Chrysene	1.11	U	36.1	1.11	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Benzo[b]fluoranthene	1.87	U	36.1	1.87	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Benzo[k]fluoranthene	1.62	U	36.1	1.62	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Benzo[a]pyrene	1.75	U	36.1	1.75	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Indeno[1,2,3-cd]pyrene	3.80	U	36.1	3.80	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Dibenz(a,h)anthracene	3.94	U	36.1	3.94	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Benzo[g,h,i]perylene	5.50	U	36.1	5.50	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
bis (2-chloroisopropyl) ether	9.59	U	36.1	9.59	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1
Thiophene, tetrahydro-, 1,1-dioxide	18.1	U	36.1	18.1	ug/Kg	☆	08/12/20 09:49	08/17/20 10:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	79		10 - 148	08/12/20 09:49	08/17/20 10:24	1
2-Fluorobiphenyl	82		38 - 130	08/12/20 09:49	08/17/20 10:24	1
2-Fluorophenol	76		25 - 132	08/12/20 09:49	08/17/20 10:24	1
Nitrobenzene-d5	77		10 - 155	08/12/20 09:49	08/17/20 10:24	1
Terphenyl-d14	108		53 - 134	08/12/20 09:49	08/17/20 10:24	1
Phenol-d5 (Surr)	74		27 - 130	08/12/20 09:49	08/17/20 10:24	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.8	U	70.1	12.8	ug/Kg	☆	08/17/20 09:48	08/18/20 19:00	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Lab Sample ID: 600-209483-2

Date Collected: 08/06/20 13:36

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 91.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	43		30 - 164	08/17/20 09:48	08/18/20 19:00	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.626	U	1.07	0.626	mg/Kg	☼	08/08/20 07:14	08/08/20 10:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a.a.a-Trifluorotoluene	98		70 - 130				08/08/20 07:14	08/08/20 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.78	U	8.14	2.78	mg/Kg	☼	08/10/20 15:56	08/13/20 14:08	1
C28-C36	8.14	U	8.14	8.14	mg/Kg	☼	08/10/20 15:56	08/13/20 14:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	135		60 - 140				08/10/20 15:56	08/13/20 14:08	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.42	U	1.85	1.42	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Hexachlorocyclohexane, beta-	1.11	U	1.85	1.11	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Hexachlorocyclohexane, delta-	0.923	U	1.85	0.923	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Hexachlorocyclohexane, alpha-	1.09	U	1.85	1.09	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Hexachlorocyclohexane, gamma-	1.01	U	1.85	1.01	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Chlordane (technical)	25.4	U	81.4	25.4	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
DDT	2.01	U	3.58	2.01	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Dieldrin	1.51	U	3.58	1.51	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Endosulfan I	1.09	U	1.85	1.09	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Endosulfan II	1.64	U	3.58	1.64	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Endosulfan sulfate	1.82	U	3.58	1.82	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Endrin	1.66	U	3.58	1.66	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Endrin aldehyde	1.69	U	3.58	1.69	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Heptachlor	1.01	U	1.85	1.01	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Heptachlor epoxide	1.27	U	1.85	1.27	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Toxaphene	79.4	U	185	79.4	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	82		47 - 150				08/11/20 08:51	08/11/20 21:16	1
Tetrachloro-m-xylene	79		50 - 143				08/11/20 08:51	08/11/20 21:16	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00174	U	0.0181	0.00174	mg/Kg	☼	08/11/20 08:51	08/12/20 14:51	1
PCB-1221	0.00937	U	0.0181	0.00937	mg/Kg	☼	08/11/20 08:51	08/12/20 14:51	1
PCB-1232	0.00728	U	0.0181	0.00728	mg/Kg	☼	08/11/20 08:51	08/12/20 14:51	1
PCB-1242	0.00135	U	0.0181	0.00135	mg/Kg	☼	08/11/20 08:51	08/12/20 14:51	1
PCB-1248	0.00270	U	0.0181	0.00270	mg/Kg	☼	08/11/20 08:51	08/12/20 14:51	1
PCB-1254	0.00240	U	0.0181	0.00240	mg/Kg	☼	08/11/20 08:51	08/12/20 14:51	1
PCB-1260	0.0147	U	0.0181	0.0147	mg/Kg	☼	08/11/20 08:51	08/12/20 14:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		10 - 150				08/11/20 08:51	08/12/20 14:51	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Lab Sample ID: 600-209483-2

Date Collected: 08/06/20 13:36

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 91.8

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	105		10 - 150	08/11/20 08:51	08/12/20 14:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.3		4.36	0.582	mg/Kg	✱		08/11/20 18:26	1
Nitrate as N	11.1		2.18	0.273	mg/Kg	✱		08/11/20 18:26	1
Fluoride	3.90		2.18	0.655	mg/Kg	✱		08/11/20 18:26	1
Nitrite as N	0.469	J	2.18	0.324	mg/Kg	✱		08/11/20 18:26	1
Sulfate	150		5.45	1.04	mg/Kg	✱		08/11/20 18:26	1

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0225	U	0.0993	0.0225	mg/Kg		08/14/20 16:49	08/19/20 23:31	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0427	U	0.199	0.0427	mg/Kg		08/14/20 16:49	08/19/20 23:31	1
2,4,6-Trinitrotoluene	0.0305	U	0.0993	0.0305	mg/Kg		08/14/20 16:49	08/19/20 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	103		83 - 122	08/14/20 16:49	08/19/20 23:31	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0855	U	0.519	0.0855	ug/Kg	✱	08/13/20 12:00	08/20/20 14:00	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.248	U	0.863	0.248	ug/Kg	✱	08/17/20 14:49	08/24/20 12:30	1
Perfluorohexanesulfonic acid (PFHxS)	0.302	U	0.863	0.302	ug/Kg	✱	08/17/20 14:49	08/24/20 12:30	1
Perfluorooctanesulfonic acid (PFOS)	0.151	U	0.863	0.151	ug/Kg	✱	08/17/20 14:49	08/24/20 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	08/17/20 14:49	08/24/20 12:30	1
13C8 PFOS	97		70 - 130	08/17/20 14:49	08/24/20 12:30	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.784	U	2.09	0.784	mg/Kg	✱	08/13/20 11:03	08/14/20 19:39	20
Arsenic	4.18	U	10.5	4.18	mg/Kg	✱	08/13/20 11:03	08/14/20 19:39	20
Barium	47.9		20.9	5.23	mg/Kg	✱	08/13/20 11:03	08/14/20 19:39	20
Beryllium	0.418	U	1.05	0.418	mg/Kg	✱	08/13/20 11:03	08/14/20 19:39	20
Cadmium	0.251	U	0.523	0.251	mg/Kg	✱	08/13/20 11:03	08/14/20 19:39	20
Chromium	6.62	J	10.5	4.71	mg/Kg	✱	08/13/20 11:03	08/14/20 19:39	20
Iron	5950		126	62.8	mg/Kg	✱	08/13/20 11:03	08/14/20 19:39	20
Copper	5.37	J	10.5	4.18	mg/Kg	✱	08/13/20 11:03	08/14/20 19:39	20
Manganese	88.4		5.23	2.09	mg/Kg	✱	08/13/20 11:03	08/14/20 19:39	20
Lead	6.54	U	15.7	6.54	mg/Kg	✱	08/13/20 11:03	08/21/20 17:55	100
Antimony	2.09	U	5.23	2.09	mg/Kg	✱	08/13/20 11:03	08/14/20 19:39	20
Selenium	3.35	U	5.23	3.35	mg/Kg	✱	08/13/20 11:03	08/14/20 19:39	20
Thallium	10.5	U	26.1	10.5	mg/Kg	✱	08/13/20 11:03	08/21/20 17:55	100
Zinc	20.9	U	52.3	20.9	mg/Kg	✱	08/13/20 11:03	08/14/20 19:39	20
Uranium	2.09	U	5.23	2.09	mg/Kg	✱	08/13/20 11:03	08/21/20 17:55	100

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Lab Sample ID: 600-209483-2

Date Collected: 08/06/20 13:36

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 91.8

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00384	U	0.0182	0.00384	mg/Kg	☆	09/02/20 13:16	09/03/20 13:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.2		1.0	1.0	%			08/11/20 08:50	1
Percent Solids	91.8		1.0	1.0	%			08/11/20 08:50	1
Cyanide, Total	0.0405	J	0.127	0.0190	mg/Kg	☆	08/14/20 14:14	08/14/20 17:13	1
pH	9.3	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.554	b	0.538	0.452	mg/Kg	☆	08/19/20 16:29	08/19/20 20:35	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1700		10.0	10.0	mg/L			08/19/20 12:28	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	0.670		0.155	0.170	1.00	0.105	pCi/g	08/20/20 11:43	09/12/20 09:54	1
Radium-228	0.472		0.189	0.195		0.358	pCi/g	08/20/20 11:43	09/12/20 09:54	1
Combined Radium 226 + 228	1.14		0.244	0.259		0.358	pCi/g	08/20/20 11:43	09/12/20 09:54	1

Client Sample ID: CELL18-SQUARE157-S-2-3-200806

Lab Sample ID: 600-209483-3

Date Collected: 08/06/20 14:10

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.938	U	6.34	0.938	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
1,1,2,2-Tetrachloroethane	1.10	U	6.34	1.10	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
1,1,2-Trichloroethane	0.925	U	6.34	0.925	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
1,1-Dichloroethane	1.10	U	6.34	1.10	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
1,1-Dichloroethene	1.55	U	6.34	1.55	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
1,1-Dichloropropene	0.824	U	6.34	0.824	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
1,2,4-Trichlorobenzene	2.50	U	6.34	2.50	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
1,2-Dibromoethane	1.29	U	6.34	1.29	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
1,2-Dichlorobenzene	1.01	U	6.34	1.01	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
1,2-Dichloroethane	1.14	U	6.34	1.14	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
1,2-Dichloropropane	0.900	U	6.34	0.900	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
1,3-Dichloropropane, Total	0.735	U	6.34	0.735	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
1,4-Dichlorobenzene	0.837	U	6.34	0.837	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
1,4-Dioxane	78.7	U	634	78.7	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Acrolein	7.90	U	31.7	7.90	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Acrylonitrile	7.38	U	63.4	7.38	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Benzene	0.798	U	6.34	0.798	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Bromodichloromethane	0.837	U	6.34	0.837	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Bromomethane	1.05	U *	12.7	1.05	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Carbon tetrachloride	1.43	U	6.34	1.43	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Chloroform	1.27	J b	12.7	0.837	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Chloromethane	2.10	U	12.7	2.10	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1

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Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE157-S-2-3-200806

Lab Sample ID: 600-209483-3

Date Collected: 08/06/20 14:10

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.05	U	6.34	1.05	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
cis-1,3-Dichloropropene	0.684	U	6.34	0.684	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Ethylbenzene	1.29	U	6.34	1.29	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Methyl tert-butyl ether	2.32	U	6.34	2.32	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Methylene Chloride	2.78	U	12.7	2.78	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Monochlorobenzene	1.22	U	6.34	1.22	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Styrene	0.900	U	6.34	0.900	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Tetrachloroethene	0.900	U	6.34	0.900	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Toluene	1.75	U	6.34	1.75	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
trans-1,2-Dichloroethene	1.44	U	6.34	1.44	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
trans-1,3-Dichloropropene	0.735	U	6.34	0.735	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Tribromomethane	1.74	U	6.34	1.74	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Trichloroethene	1.77	U	6.34	1.77	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Trichlorofluoromethane	0.837	U	12.7	0.837	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Vinyl chloride	1.14	U	12.7	1.14	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Xylenes, Total	1.43	U	6.34	1.43	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1
Dichlorodifluoromethane	1.95	U	6.34	1.95	ug/Kg	☆	08/08/20 08:54	08/08/20 10:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		61 - 130	08/08/20 08:54	08/08/20 10:12	1
Dibromofluoromethane	86		68 - 140	08/08/20 08:54	08/08/20 10:12	1
Toluene-d8 (Surr)	86		50 - 130	08/08/20 08:54	08/08/20 10:12	1
4-Bromofluorobenzene	108		57 - 140	08/08/20 08:54	08/08/20 10:12	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.79	U	38.1	4.79	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
N-Nitrosodiethylamine	8.21	U *	38.1	8.21	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Bis(2-chloroethyl)ether	1.89	U	38.1	1.89	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Hexachloroethane	2.64	U	38.1	2.64	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
N-Nitrosopyrrolidine	5.34	U *	38.1	5.34	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Nitrobenzene	3.38	U	38.1	3.38	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Isophorone	1.14	U	38.1	1.14	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
2,4-Dichlorophenol	4.43	U	38.1	4.43	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Naphthalene	1.54	U	38.1	1.54	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Hexachlorobutadiene	2.20	U	38.1	2.20	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
N-Nitrosodi-n-butylamine	22.9	J *	38.1	19.1	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
2-Methylnaphthalene	3.13	U	38.1	3.13	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
1-Methylnaphthalene	1.80	U	38.1	1.80	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
1,2,4,5-Tetrachlorobenzene	7.72	U	38.1	7.72	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Hexachlorocyclopentadiene	5.27	U	38.1	5.27	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
2,4,6-Trichlorophenol	3.06	U	38.1	3.06	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
2,4,5-Trichlorophenol	11.4	U	38.1	11.4	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Dimethyl phthalate	5.59	U	76.3	5.59	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Acenaphthylene	1.14	U	38.1	1.14	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
2,6-Dinitrotoluene	3.37	U	38.1	3.37	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Acenaphthene	1.65	U	38.1	1.65	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Dinitrophenols	5.40	U	114	5.40	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Pentachlorobenzene	4.59	U *	38.1	4.59	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
2,4-Dinitrotoluene	4.13	U	38.1	4.13	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE157-S-2-3-200806

Lab Sample ID: 600-209483-3

Date Collected: 08/06/20 14:10

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 87.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	9.64	U	76.3	9.64	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Fluorene	2.70	U	38.1	2.70	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Dinitro-o-cresol	5.69	U	194	5.69	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
N-Nitrosodiphenylamine	2.16	U	38.1	2.16	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Diphenylhydrazine, 1,2-	1.85	U	38.1	1.85	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Hexachlorobenzene	1.74	U	38.1	1.74	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Atrazine	5.74	U	38.1	5.74	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Pentachlorophenol	4.57	U	191	4.57	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Phenanthrene	5.66	U	38.1	5.66	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Anthracene	1.46	U	38.1	1.46	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Dibutylphthalate	13.1	J	76.3	2.96	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Fluoranthene	3.56	U	38.1	3.56	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Benzidine	10.3	U	377	10.3	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Pyrene	2.09	U	38.1	2.09	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Dichlorobenzidine, 3,3'-	11.6	U	38.1	11.6	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Benzo[a]anthracene	1.58	U	38.1	1.58	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Di (2-ethylhexyl)phthalate	23.3	J	38.1	6.14	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Chrysene	1.17	U	38.1	1.17	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Benzo[b]fluoranthene	1.97	U	38.1	1.97	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Benzo[k]fluoranthene	1.70	U	38.1	1.70	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Benzo[a]pyrene	1.84	U	38.1	1.84	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Indeno[1,2,3-cd]pyrene	4.00	U	38.1	4.00	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Dibenz(a,h)anthracene	4.15	U	38.1	4.15	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Benzo[g,h,i]perylene	5.80	U	38.1	5.80	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
bis (2-chloroisopropyl) ether	10.1	U	38.1	10.1	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1
Thiophene, tetrahydro-, 1,1-dioxide	19.1	U	38.1	19.1	ug/Kg	☆	08/12/20 09:52	08/17/20 11:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		10 - 148	08/12/20 09:52	08/17/20 11:36	1
2-Fluorobiphenyl	84		38 - 130	08/12/20 09:52	08/17/20 11:36	1
2-Fluorophenol	74		25 - 132	08/12/20 09:52	08/17/20 11:36	1
Nitrobenzene-d5	80		10 - 155	08/12/20 09:52	08/17/20 11:36	1
Terphenyl-d14	114		53 - 134	08/12/20 09:52	08/17/20 11:36	1
Phenol-d5 (Surr)	74		27 - 130	08/12/20 09:52	08/17/20 11:36	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.7	U	75.6	13.7	ug/Kg	☆	08/17/20 09:48	08/18/20 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	48		30 - 164	08/17/20 09:48	08/18/20 19:25	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.714	U	1.22	0.714	mg/Kg	☆	08/08/20 07:14	08/08/20 11:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		70 - 130	08/08/20 07:14	08/08/20 11:02	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE157-S-2-3-200806

Lab Sample ID: 600-209483-3

Date Collected: 08/06/20 14:10

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.93	U	8.56	2.93	mg/Kg	✱	08/10/20 15:56	08/13/20 14:42	1
C28-C36	8.56	U	8.56	8.56	mg/Kg	✱	08/10/20 15:56	08/13/20 14:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	116		60 - 140				08/10/20 15:56	08/13/20 14:42	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.50	U	1.94	1.50	ug/Kg	✱	08/11/20 08:51	08/11/20 21:40	1
Hexachlorocyclohexane, beta-	1.17	U	1.94	1.17	ug/Kg	✱	08/11/20 08:51	08/11/20 21:40	1
Hexachlorocyclohexane, delta-	0.972	U	1.94	0.972	ug/Kg	✱	08/11/20 08:51	08/11/20 21:40	1
Hexachlorocyclohexane, alpha-	1.14	U	1.94	1.14	ug/Kg	✱	08/11/20 08:51	08/11/20 21:40	1
Hexachlorocyclohexane, gamma-	1.06	U	1.94	1.06	ug/Kg	✱	08/11/20 08:51	08/11/20 21:40	1
Chlordane (technical)	26.8	U	85.8	26.8	ug/Kg	✱	08/11/20 08:51	08/11/20 21:40	1
DDT	2.12	U	3.77	2.12	ug/Kg	✱	08/11/20 08:51	08/11/20 21:40	1
Dieldrin	1.59	U	3.77	1.59	ug/Kg	✱	08/11/20 08:51	08/11/20 21:40	1
Endosulfan I	1.14	U	1.94	1.14	ug/Kg	✱	08/11/20 08:51	08/11/20 21:40	1
Endosulfan II	1.73	U	3.77	1.73	ug/Kg	✱	08/11/20 08:51	08/11/20 21:40	1
Endosulfan sulfate	1.92	U	3.77	1.92	ug/Kg	✱	08/11/20 08:51	08/11/20 21:40	1
Endrin	1.75	U	3.77	1.75	ug/Kg	✱	08/11/20 08:51	08/11/20 21:40	1
Endrin aldehyde	1.78	U	3.77	1.78	ug/Kg	✱	08/11/20 08:51	08/11/20 21:40	1
Heptachlor	1.06	U	1.94	1.06	ug/Kg	✱	08/11/20 08:51	08/11/20 21:40	1
Heptachlor epoxide	1.34	U	1.94	1.34	ug/Kg	✱	08/11/20 08:51	08/11/20 21:40	1
Toxaphene	83.6	U	194	83.6	ug/Kg	✱	08/11/20 08:51	08/11/20 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	80		47 - 150				08/11/20 08:51	08/11/20 21:40	1
Tetrachloro-m-xylene	78		50 - 143				08/11/20 08:51	08/11/20 21:40	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00183	U	0.0191	0.00183	mg/Kg	✱	08/11/20 08:51	08/12/20 15:16	1
PCB-1221	0.00987	U	0.0191	0.00987	mg/Kg	✱	08/11/20 08:51	08/12/20 15:16	1
PCB-1232	0.00766	U	0.0191	0.00766	mg/Kg	✱	08/11/20 08:51	08/12/20 15:16	1
PCB-1242	0.00142	U	0.0191	0.00142	mg/Kg	✱	08/11/20 08:51	08/12/20 15:16	1
PCB-1248	0.00285	U	0.0191	0.00285	mg/Kg	✱	08/11/20 08:51	08/12/20 15:16	1
PCB-1254	0.00253	U	0.0191	0.00253	mg/Kg	✱	08/11/20 08:51	08/12/20 15:16	1
PCB-1260	0.0154	U	0.0191	0.0154	mg/Kg	✱	08/11/20 08:51	08/12/20 15:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		10 - 150				08/11/20 08:51	08/12/20 15:16	1
DCB Decachlorobiphenyl	102		10 - 150				08/11/20 08:51	08/12/20 15:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.01	J	4.58	0.612	mg/Kg	✱		08/11/20 18:47	1
Nitrate as N	16.7		2.29	0.288	mg/Kg	✱		08/11/20 18:47	1
Fluoride	9.88		2.29	0.689	mg/Kg	✱		08/11/20 18:47	1
Nitrite as N	0.340	U	2.29	0.340	mg/Kg	✱		08/11/20 18:47	1
Sulfate	125		5.73	1.10	mg/Kg	✱		08/11/20 18:47	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE157-S-2-3-200806

Lab Sample ID: 600-209483-3

Date Collected: 08/06/20 14:10

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 87.3

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0219	U	0.0965	0.0219	mg/Kg		08/14/20 16:49	08/20/20 01:27	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0415	U	0.193	0.0415	mg/Kg		08/14/20 16:49	08/20/20 01:27	1
2,4,6-Trinitrotoluene	0.0296	U	0.0965	0.0296	mg/Kg		08/14/20 16:49	08/20/20 01:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	101		83 - 122				08/14/20 16:49	08/20/20 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	0.0900	U	0.546	0.0900	ug/Kg	✱	08/13/20 12:00	08/20/20 14:05	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.251	U	0.871	0.251	ug/Kg	✱	08/17/20 14:49	08/24/20 12:39	1
Perfluorohexanesulfonic acid (PFHxS)	0.305	U	0.871	0.305	ug/Kg	✱	08/17/20 14:49	08/24/20 12:39	1
Perfluorooctanesulfonic acid (PFOS)	0.152	U	0.871	0.152	ug/Kg	✱	08/17/20 14:49	08/24/20 12:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153				08/17/20 14:49	08/24/20 12:39	1
13C8 PFOS	97		70 - 130				08/17/20 14:49	08/24/20 12:39	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.765	U	2.04	0.765	mg/Kg	✱	08/13/20 11:03	08/14/20 19:42	20
Arsenic	4.34	J	10.2	4.08	mg/Kg	✱	08/13/20 11:03	08/14/20 19:42	20
Barium	339		20.4	5.10	mg/Kg	✱	08/13/20 11:03	08/14/20 19:42	20
Beryllium	0.408	U	1.02	0.408	mg/Kg	✱	08/13/20 11:03	08/14/20 19:42	20
Cadmium	0.245	U	0.510	0.245	mg/Kg	✱	08/13/20 11:03	08/14/20 19:42	20
Chromium	4.59	U	10.2	4.59	mg/Kg	✱	08/13/20 11:03	08/14/20 19:42	20
Iron	2240		122	61.2	mg/Kg	✱	08/13/20 11:03	08/14/20 19:42	20
Copper	4.08	U	10.2	4.08	mg/Kg	✱	08/13/20 11:03	08/14/20 19:42	20
Manganese	24.9		5.10	2.04	mg/Kg	✱	08/13/20 11:03	08/14/20 19:42	20
Lead	1.53	J	3.06	1.27	mg/Kg	✱	08/13/20 11:03	08/14/20 19:42	20
Antimony	2.04	U	5.10	2.04	mg/Kg	✱	08/13/20 11:03	08/14/20 19:42	20
Selenium	3.26	U	5.10	3.26	mg/Kg	✱	08/13/20 11:03	08/14/20 19:42	20
Thallium	2.04	U	5.10	2.04	mg/Kg	✱	08/13/20 11:03	08/14/20 19:42	20
Zinc	20.4	U	51.0	20.4	mg/Kg	✱	08/13/20 11:03	08/14/20 19:42	20
Uranium	0.516	J	1.02	0.408	mg/Kg	✱	08/13/20 11:03	08/14/20 19:42	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00526	J	0.0183	0.00385	mg/Kg	✱	09/02/20 13:16	09/03/20 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.7		1.0	1.0	%			08/11/20 08:50	1
Percent Solids	87.3		1.0	1.0	%			08/11/20 08:50	1
Cyanide, Total	0.0195	U	0.130	0.0195	mg/Kg	✱	08/14/20 14:14	08/14/20 17:14	1
pH	8.1	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.729	b	0.563	0.472	mg/Kg	✱	08/19/20 16:29	08/19/20 20:36	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE157-S-2-3-200806

Lab Sample ID: 600-209483-3

Date Collected: 08/06/20 14:10

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 87.3

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	158		10.0	10.0	mg/L			08/19/20 12:28	1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.22		0.205	0.240	1.00	0.112	pCi/g	08/20/20 11:43	09/12/20 09:53	1
Radium-228	0.137	U	0.226	0.226		0.191	pCi/g	08/20/20 11:43	09/12/20 09:53	1
Combined Radium 226 + 228	1.35		0.305	0.330		0.191	pCi/g	08/20/20 11:43	09/12/20 09:53	1

Eurofins TestAmerica, Houston

Definitions/Glossary

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

Job ID: 600-209483-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
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/MS 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.
N2	RPD of the MS and MSD exceeds the control limits
U	Analyte was not detected at or above the SDL.

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

LCMS

Qualifier	Qualifier Description
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.
N2	RPD of the MS and MSD exceeds the control limits
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.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
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

Eurofins TestAmerica, Houston

Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 600-209483-1

Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

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

Surrogate Summary

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

Job ID: 600-209483-1

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 (61-130)	DBFM (68-140)	TOL (50-130)	BFB (57-140)
600-209483-1	CELL17-SQUARE86-S-2-3-2008	95	86	89	107
600-209483-2	CELL18-SQUARE118-S-2-3-200806	100	89	93	111
600-209483-3	CELL18-SQUARE157-S-2-3-200806	101	86	86	108
LCS 600-300707/3	Lab Control Sample	90	88	95	110
LCSD 600-300707/4	Lab Control Sample Dup	89	88	91	107
MB 600-300707/6	Method Blank	108	87	92	113

Surrogate Legend

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

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (10-148)	FBP (38-130)	2FP (25-132)	NBZ (10-155)	TPHL (53-134)	PHL (27-130)
600-209483-1	CELL17-SQUARE86-S-2-3-2008	73	52	44	46	111	48
600-209483-2	CELL18-SQUARE118-S-2-3-200806	79	82	76	77	108	74
600-209483-2 MS	CELL18-SQUARE118-S-2-3-200806	88	80	75	79	106	60
600-209483-2 MSD	CELL18-SQUARE118-S-2-3-200806	90	90	84	86	110	83
600-209483-3	CELL18-SQUARE157-S-2-3-200806	59	84	74	80	114	74
LCS 600-300979/24-A	Lab Control Sample	99	95	87	91	116	89
LCS 600-300979/25-A	Lab Control Sample	56	85	73	84	109	79
LCS 600-300979/2-A	Lab Control Sample	100	98	91	95	112	93
MB 600-300979/1-A	Method Blank	76	90	84	89	113	84

Surrogate Legend

TBP = 2,4,6-Tribromophenol

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

TPHL = Terphenyl-d14

PHL = Phenol-d5 (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)	
600-209483-1	CELL17-SQUARE86-S-2-3-2008	60	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	43	

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Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209483-1

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)
600-209483-3	CELL18-SQUARE157-S-2-3-2006	48
LCS 400-500496/2-A	Lab Control Sample	94
MB 400-500496/1-A	Method Blank	86

Surrogate Legend

TPP = Triphenylphosphate

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFT1 (70-130)
600-209483-1	CELL17-SQUARE86-S-2-3-2006	82
600-209483-2	CELL18-SQUARE118-S-2-3-200806	98
600-209483-3	CELL18-SQUARE157-S-2-3-200806	91
LCS 600-300708/1-A	Lab Control Sample	96
LCSD 600-300708/2-A	Lab Control Sample Dup	96
MB 600-300708/3-A	Method Blank	95

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH1 (60-140)
600-209483-1	CELL17-SQUARE86-S-2-3-2006	101
600-209483-2	CELL18-SQUARE118-S-2-3-200806	135
600-209483-3	CELL18-SQUARE157-S-2-3-200806	116
LCS 600-300806/2-A	Lab Control Sample	131
LCSD 600-300806/3-A	Lab Control Sample Dup	131
MB 600-300806/1-A	Method Blank	125

Surrogate Legend

OTPH = o-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP1 (47-150)	TCX1 (50-143)
600-209483-1	CELL17-SQUARE86-S-2-3-2006	87	82
600-209483-2	CELL18-SQUARE118-S-2-3-200806	82	79
600-209483-3	CELL18-SQUARE157-S-2-3-200806	80	78

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Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209483-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (47-150)	TCX1 (50-143)
LCS 600-300862/2-A	Lab Control Sample	76	74
LCSD 600-300862/3-A	Lab Control Sample Dup	104	89
MB 600-300862/1-A	Method Blank	127	116
Surrogate Legend			
DCBP = DCB Decachlorobiphenyl			
TCX = Tetrachloro-m-xylene			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (10-150)	DCBP1 (10-150)
600-209483-1	CELL17-SQUARE86-S-2-3-2008	86	110
600-209483-2	CELL18-SQUARE118-S-2-3-200806	75	105
600-209483-3	CELL18-SQUARE157-S-2-3-200806	83	102
LCS 600-300862/4-A	Lab Control Sample	85	104
LCSD 600-300862/5-A	Lab Control Sample Dup	78	101
MB 600-300862/1-A	Method Blank	117	165 X
Surrogate Legend			
TCX = Tetrachloro-m-xylene			
DCBP = DCB Decachlorobiphenyl			

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)	
600-209483-1	CELL17-SQUARE86-S-2-3-2008	103	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	103	
600-209483-2 DU	CELL18-SQUARE118-S-2-3-200806	101	
600-209483-2 MS	CELL18-SQUARE118-S-2-3-200806	101	
600-209483-2 MSD	CELL18-SQUARE118-S-2-3-200806	103	
600-209483-2 TRL	CELL18-SQUARE118-S-2-3-200806	101	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	101	
LCS 280-505741/2-A	Lab Control Sample	102	
MB 280-505741/1-A	Method Blank	102	
Surrogate Legend			
12DNB = 1,2-Dinitrobenzene			

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Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209483-1

Project/Site: Chevron - Jal Land Farm Soils

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)
600-209483-1	CELL17-SQUARE86-S-2-3-2008	104	99
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	104	99
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	101	97
600-209483-2	CELL18-SQUARE118-S-2-3-200806	103	97
600-209483-3	CELL18-SQUARE157-S-2-3-200806	104	97
DLCK 280-500633/14	Lab Control Sample	108	91
LCS 280-505864/2-A	Lab Control Sample	101	98
MB 280-505864/1-A	Method Blank	104	94
Surrogate Legend			
C8PFOA = 13C8 PFOA			
C8PFOS = 13C8 PFOS			

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-300707/6

Matrix: Solid

Analysis Batch: 300707

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.740	U	5.00	0.740	ug/Kg			08/08/20 09:03	1
1,1,2,2-Tetrachloroethane	0.870	U	5.00	0.870	ug/Kg			08/08/20 09:03	1
1,1,2-Trichloroethane	0.730	U	5.00	0.730	ug/Kg			08/08/20 09:03	1
1,1-Dichloroethane	0.870	U	5.00	0.870	ug/Kg			08/08/20 09:03	1
1,1-Dichloroethene	1.22	U	5.00	1.22	ug/Kg			08/08/20 09:03	1
1,1-Dichloropropene	0.650	U	5.00	0.650	ug/Kg			08/08/20 09:03	1
1,2,4-Trichlorobenzene	1.97	U	5.00	1.97	ug/Kg			08/08/20 09:03	1
1,2-Dibromoethane	1.02	U	5.00	1.02	ug/Kg			08/08/20 09:03	1
1,2-Dichlorobenzene	0.800	U	5.00	0.800	ug/Kg			08/08/20 09:03	1
1,2-Dichloroethane	0.900	U	5.00	0.900	ug/Kg			08/08/20 09:03	1
1,2-Dichloropropane	0.710	U	5.00	0.710	ug/Kg			08/08/20 09:03	1
1,3-Dichloropropane, Total	0.580	U	5.00	0.580	ug/Kg			08/08/20 09:03	1
1,4-Dichlorobenzene	0.660	U	5.00	0.660	ug/Kg			08/08/20 09:03	1
1,4-Dioxane	62.1	U	500	62.1	ug/Kg			08/08/20 09:03	1
Acrolein	6.23	U	25.0	6.23	ug/Kg			08/08/20 09:03	1
Acrylonitrile	5.82	U	50.0	5.82	ug/Kg			08/08/20 09:03	1
Benzene	0.630	U	5.00	0.630	ug/Kg			08/08/20 09:03	1
Bromodichloromethane	0.660	U	5.00	0.660	ug/Kg			08/08/20 09:03	1
Bromomethane	0.830	U	10.0	0.830	ug/Kg			08/08/20 09:03	1
Carbon tetrachloride	1.13	U	5.00	1.13	ug/Kg			08/08/20 09:03	1
Chloroform	1.041	J	10.0	0.660	ug/Kg			08/08/20 09:03	1
Chloromethane	1.66	U	10.0	1.66	ug/Kg			08/08/20 09:03	1
cis-1,2-Dichloroethene	0.830	U	5.00	0.830	ug/Kg			08/08/20 09:03	1
cis-1,3-Dichloropropene	0.540	U	5.00	0.540	ug/Kg			08/08/20 09:03	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			08/08/20 09:03	1
Methyl tert-butyl ether	1.83	U	5.00	1.83	ug/Kg			08/08/20 09:03	1
Methylene Chloride	2.19	U	10.0	2.19	ug/Kg			08/08/20 09:03	1
Monochlorobenzene	0.960	U	5.00	0.960	ug/Kg			08/08/20 09:03	1
Styrene	0.710	U	5.00	0.710	ug/Kg			08/08/20 09:03	1
Tetrachloroethene	0.710	U	5.00	0.710	ug/Kg			08/08/20 09:03	1
Toluene	1.38	U	5.00	1.38	ug/Kg			08/08/20 09:03	1
trans-1,2-Dichloroethene	1.14	U	5.00	1.14	ug/Kg			08/08/20 09:03	1
trans-1,3-Dichloropropene	0.580	U	5.00	0.580	ug/Kg			08/08/20 09:03	1
Tribromomethane	1.37	U	5.00	1.37	ug/Kg			08/08/20 09:03	1
Trichloroethene	1.40	U	5.00	1.40	ug/Kg			08/08/20 09:03	1
Trichlorofluoromethane	0.660	U	10.0	0.660	ug/Kg			08/08/20 09:03	1
Vinyl chloride	0.900	U	10.0	0.900	ug/Kg			08/08/20 09:03	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			08/08/20 09:03	1
Dichlorodifluoromethane	1.54	U	5.00	1.54	ug/Kg			08/08/20 09:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		61 - 130		08/08/20 09:03	1
Dibromofluoromethane	87		68 - 140		08/08/20 09:03	1
Toluene-d8 (Surr)	92		50 - 130		08/08/20 09:03	1
4-Bromofluorobenzene	113		57 - 140		08/08/20 09:03	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

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

Lab Sample ID: LCS 600-300707/3

Matrix: Solid

Analysis Batch: 300707

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	52.33		ug/Kg		105	59 - 130
1,1,2,2-Tetrachloroethane	50.0	47.62		ug/Kg		95	61 - 138
1,1,2-Trichloroethane	50.0	45.10		ug/Kg		90	67 - 134
1,1-Dichloroethane	50.0	51.11		ug/Kg		102	63 - 140
1,1-Dichloroethene	50.0	44.56		ug/Kg		89	62 - 142
1,1-Dichloropropene	50.0	47.30		ug/Kg		95	67 - 130
1,2,4-Trichlorobenzene	50.0	49.16		ug/Kg		98	53 - 136
1,2-Dibromoethane	50.0	43.15		ug/Kg		86	65 - 136
1,2-Dichlorobenzene	50.0	49.61		ug/Kg		99	61 - 131
1,2-Dichloroethane	50.0	53.50		ug/Kg		107	58 - 137
1,2-Dichloropropane	50.0	47.06		ug/Kg		94	70 - 130
1,3-Dichloropropane, Total	100	97.99		ug/Kg		98	70 - 130
1,4-Dichlorobenzene	50.0	49.31		ug/Kg		99	65 - 131
1,4-Dioxane	1000	662.8		ug/Kg		66	31 - 150
Acrolein	250	213.3		ug/Kg		85	10 - 150
Acrylonitrile	500	477.4		ug/Kg		95	43 - 150
Benzene	50.0	45.50		ug/Kg		91	70 - 131
Bromodichloromethane	50.0	50.27		ug/Kg		101	67 - 138
Bromomethane	50.0	48.02		ug/Kg		96	37 - 147
Carbon tetrachloride	50.0	50.78		ug/Kg		102	58 - 130
Chloroform	50.0	49.95		ug/Kg		100	69 - 130
Chloromethane	50.0	68.16		ug/Kg		136	44 - 141
cis-1,2-Dichloroethene	50.0	43.88		ug/Kg		88	70 - 130
cis-1,3-Dichloropropene	50.0	48.77		ug/Kg		98	65 - 130
Ethylbenzene	50.0	44.42		ug/Kg		89	66 - 130
Methyl tert-butyl ether	50.0	50.55		ug/Kg		101	63 - 132
Methylene Chloride	50.0	46.72		ug/Kg		93	61 - 150
Monochlorobenzene	50.0	45.30		ug/Kg		91	63 - 131
Styrene	50.0	44.25		ug/Kg		88	65 - 133
Tetrachloroethene	50.0	43.27		ug/Kg		87	43 - 143
Toluene	50.0	45.97		ug/Kg		92	67 - 130
trans-1,2-Dichloroethene	50.0	47.78		ug/Kg		96	69 - 130
trans-1,3-Dichloropropene	50.0	49.22		ug/Kg		98	70 - 130
Tribromomethane	50.0	48.18		ug/Kg		96	43 - 150
Trichloroethene	50.0	41.64		ug/Kg		83	63 - 135
Trichlorofluoromethane	50.0	57.85		ug/Kg		116	53 - 134
Vinyl chloride	50.0	56.75		ug/Kg		113	40 - 148
Xylenes, Total	100	91.39		ug/Kg		91	63 - 130
Dichlorodifluoromethane	50.0	64.31		ug/Kg		129	24 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		61 - 130
Dibromofluoromethane	88		68 - 140
Toluene-d8 (Surr)	95		50 - 130
4-Bromofluorobenzene	110		57 - 140

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

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

Lab Sample ID: LCSD 600-300707/4

Matrix: Solid

Analysis Batch: 300707

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
1,1,1-Trichloroethane	50.0	50.47		ug/Kg		101	59 - 130	4	30
1,1,2,2-Tetrachloroethane	50.0	41.86		ug/Kg		84	61 - 138	13	30
1,1,2-Trichloroethane	50.0	41.82		ug/Kg		84	67 - 134	8	30
1,1-Dichloroethane	50.0	48.37		ug/Kg		97	63 - 140	6	30
1,1-Dichloroethene	50.0	39.90		ug/Kg		80	62 - 142	11	30
1,1-Dichloropropene	50.0	47.28		ug/Kg		95	67 - 130	0	30
1,2,4-Trichlorobenzene	50.0	45.58		ug/Kg		91	53 - 136	8	30
1,2-Dibromoethane	50.0	40.36		ug/Kg		81	65 - 136	7	30
1,2-Dichlorobenzene	50.0	46.90		ug/Kg		94	61 - 131	6	30
1,2-Dichloroethane	50.0	51.06		ug/Kg		102	58 - 137	5	30
1,2-Dichloropropane	50.0	45.74		ug/Kg		91	70 - 130	3	30
1,3-Dichloropropane, Total	100	91.72		ug/Kg		92	70 - 130	7	30
1,4-Dichlorobenzene	50.0	46.96		ug/Kg		94	65 - 131	5	30
1,4-Dioxane	1000	744.2		ug/Kg		74	31 - 150	12	30
Acrolein	250	167.3		ug/Kg		67	10 - 150	24	30
Acrylonitrile	500	382.6		ug/Kg		77	43 - 150	22	30
Benzene	50.0	43.98		ug/Kg		88	70 - 131	3	30
Bromodichloromethane	50.0	47.68		ug/Kg		95	67 - 138	5	30
Bromomethane	50.0	34.53	*	ug/Kg		69	37 - 147	33	30
Carbon tetrachloride	50.0	48.66		ug/Kg		97	58 - 130	4	30
Chloroform	50.0	47.93		ug/Kg		96	69 - 130	4	30
Chloromethane	50.0	57.80		ug/Kg		116	44 - 141	16	30
cis-1,2-Dichloroethene	50.0	43.72		ug/Kg		87	70 - 130	0	30
cis-1,3-Dichloropropene	50.0	45.41		ug/Kg		91	65 - 130	7	30
Ethylbenzene	50.0	42.25		ug/Kg		85	66 - 130	5	30
Methyl tert-butyl ether	50.0	49.06		ug/Kg		98	63 - 132	3	30
Methylene Chloride	50.0	40.83		ug/Kg		82	61 - 150	13	30
Monochlorobenzene	50.0	43.22		ug/Kg		86	63 - 131	5	30
Styrene	50.0	42.79		ug/Kg		86	65 - 133	3	30
Tetrachloroethene	50.0	41.84		ug/Kg		84	43 - 143	3	30
Toluene	50.0	43.25		ug/Kg		87	67 - 130	6	30
trans-1,2-Dichloroethene	50.0	43.12		ug/Kg		86	69 - 130	10	30
trans-1,3-Dichloropropene	50.0	46.31		ug/Kg		93	70 - 130	6	30
Tribromomethane	50.0	44.68		ug/Kg		89	43 - 150	8	30
Trichloroethene	50.0	40.15		ug/Kg		80	63 - 135	4	30
Trichlorofluoromethane	50.0	53.31		ug/Kg		107	53 - 134	8	30
Vinyl chloride	50.0	48.37		ug/Kg		97	40 - 148	16	30
Xylenes, Total	100	87.88		ug/Kg		88	63 - 130	4	30
Dichlorodifluoromethane	50.0	56.57		ug/Kg		113	24 - 147	13	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		61 - 130
Dibromofluoromethane	88		68 - 140
Toluene-d8 (Surr)	91		50 - 130
4-Bromofluorobenzene	107		57 - 140

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-300979/1-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.17	U	33.1	4.17	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiethylamine	7.14	U	33.1	7.14	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Bis(2-chloroethyl)ether	1.64	U	33.1	1.64	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachloroethane	2.30	U	33.1	2.30	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosopyrrolidine	4.65	U	33.1	4.65	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene	2.94	U	33.1	2.94	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Isophorone	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dichlorophenol	3.85	U	33.1	3.85	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Naphthalene	1.34	U	33.1	1.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobutadiene	1.91	U	33.1	1.91	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodi-n-butylamine	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2-Methylnaphthalene	2.73	U	33.1	2.73	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1-Methylnaphthalene	1.56	U	33.1	1.56	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1,2,4,5-Tetrachlorobenzene	6.71	U	33.1	6.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorocyclopentadiene	4.59	U	33.1	4.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,6-Trichlorophenol	2.67	U	33.1	2.67	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,5-Trichlorophenol	9.96	U	33.1	9.96	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dimethyl phthalate	4.86	U	66.3	4.86	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthylene	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,6-Dinitrotoluene	2.93	U	33.1	2.93	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthene	1.43	U	33.1	1.43	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitrophenols	4.69	U	99.5	4.69	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorobenzene	3.99	U	33.1	3.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dinitrotoluene	3.59	U	33.1	3.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diethyl phthalate	8.39	U	66.3	8.39	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluorene	2.35	U	33.1	2.35	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitro-o-cresol	4.95	U	169	4.95	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiphenylamine	1.88	U	33.1	1.88	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diphenylhydrazine, 1,2-	1.61	U	33.1	1.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobenzene	1.51	U	33.1	1.51	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Atrazine	4.99	U	33.1	4.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorophenol	3.98	U	166	3.98	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Phenanthrene	4.92	U	33.1	4.92	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Anthracene	1.27	U	33.1	1.27	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibutylphthalate	2.58	U	66.3	2.58	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluoranthene	3.09	U	33.1	3.09	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzidine	8.97	U	328	8.97	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pyrene	1.82	U	33.1	1.82	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dichlorobenzidine, 3,3'-	10.1	U	33.1	10.1	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]anthracene	1.37	U	33.1	1.37	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Di (2-ethylhexyl)phthalate	5.34	U	33.1	5.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Chrysene	1.01	U	33.1	1.01	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[b]fluoranthene	1.71	U	33.1	1.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[k]fluoranthene	1.48	U	33.1	1.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]pyrene	1.60	U	33.1	1.60	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Indeno[1,2,3-cd]pyrene	3.48	U	33.1	3.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibenz(a,h)anthracene	3.61	U	33.1	3.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[g,h,i]perylene	5.04	U	33.1	5.04	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-300979/1-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	8.79	U	33.1	8.79	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Thiophene, tetrahydro-, 1,1-dioxide	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		10 - 148	08/12/20 09:49	08/17/20 08:25	1
2-Fluorobiphenyl	90		38 - 130	08/12/20 09:49	08/17/20 08:25	1
2-Fluorophenol	84		25 - 132	08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene-d5	89		10 - 155	08/12/20 09:49	08/17/20 08:25	1
Terphenyl-d14	113		53 - 134	08/12/20 09:49	08/17/20 08:25	1
Phenol-d5 (Surr)	84		27 - 130	08/12/20 09:49	08/17/20 08:25	1

Lab Sample ID: LCS 600-300979/24-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	663	603.2		ug/Kg		91	50 - 150
N-Nitrosopyrrolidine	663	640.3		ug/Kg		97	50 - 150
N-Nitrosodi-n-butylamine	663	504.6		ug/Kg		76	50 - 150
Pentachlorobenzene	663	570.9		ug/Kg		86	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	99		10 - 148
2-Fluorobiphenyl	95		38 - 130
2-Fluorophenol	87		25 - 132
Nitrobenzene-d5	91		10 - 155
Terphenyl-d14	116		53 - 134
Phenol-d5 (Surr)	89		27 - 130

Lab Sample ID: LCS 600-300979/25-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thiophene, tetrahydro-, 1,1-dioxide	1330	1839		ug/Kg		138	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	56		10 - 148
2-Fluorobiphenyl	85		38 - 130
2-Fluorophenol	73		25 - 132
Nitrobenzene-d5	84		10 - 155
Terphenyl-d14	109		53 - 134
Phenol-d5 (Surr)	79		27 - 130

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	663	620.7		ug/Kg		94	29 - 130
Bis(2-chloroethyl)ether	663	632.1		ug/Kg		95	40 - 130
Hexachloroethane	663	616.4		ug/Kg		93	37 - 130
Nitrobenzene	663	664.3		ug/Kg		100	42 - 130
Isophorone	663	669.6		ug/Kg		101	39 - 130
2,4-Dichlorophenol	663	685.5		ug/Kg		103	38 - 130
Naphthalene	663	645.1		ug/Kg		97	40 - 130
Hexachlorobutadiene	663	643.5		ug/Kg		97	36 - 130
2-Methylnaphthalene	663	669.4		ug/Kg		101	43 - 130
1-Methylnaphthalene	663	645.4		ug/Kg		97	43 - 130
1,2,4,5-Tetrachlorobenzene	663	672.6		ug/Kg		101	37 - 130
Hexachlorocyclopentadiene	663	594.1		ug/Kg		90	10 - 130
2,4,6-Trichlorophenol	663	691.8		ug/Kg		104	39 - 130
2,4,5-Trichlorophenol	663	714.3		ug/Kg		108	41 - 130
Dimethyl phthalate	663	732.0		ug/Kg		110	40 - 130
Acenaphthylene	663	717.5		ug/Kg		108	39 - 130
2,6-Dinitrotoluene	663	718.6		ug/Kg		108	44 - 130
Acenaphthene	663	691.9		ug/Kg		104	42 - 130
Dinitrophenols	1330	1084		ug/Kg		82	15 - 130
2,4-Dinitrotoluene	663	719.1		ug/Kg		109	45 - 130
Diethyl phthalate	663	753.6		ug/Kg		114	50 - 130
Fluorene	663	722.7		ug/Kg		109	46 - 130
Dinitro-o-cresol	1330	1237		ug/Kg		93	38 - 130
N-Nitrosodiphenylamine	663	778.1		ug/Kg		117	48 - 130
Diphenylhydrazine, 1,2-	663	789.2		ug/Kg		119	50 - 130
Hexachlorobenzene	663	733.7		ug/Kg		111	44 - 130
Atrazine	663	523.8		ug/Kg		79	10 - 140
Pentachlorophenol	1330	1166		ug/Kg		88	40 - 130
Phenanthrene	663	759.4		ug/Kg		115	51 - 130
Anthracene	663	775.6		ug/Kg		117	51 - 130
Dibutylphthalate	663	860.8		ug/Kg		130	51 - 135
Fluoranthene	663	763.4		ug/Kg		115	53 - 130
Benzidine	3310	861.3		ug/Kg		26	10 - 130
Pyrene	663	785.6		ug/Kg		119	53 - 130
Dichlorobenzidine, 3,3'-	663	456.2		ug/Kg		69	13 - 146
Benzo[a]anthracene	663	760.5		ug/Kg		115	54 - 130
Di (2-ethylhexyl)phthalate	663	842.8		ug/Kg		127	41 - 145
Chrysene	663	776.4		ug/Kg		117	52 - 130
Benzo[b]fluoranthene	663	733.1		ug/Kg		111	41 - 139
Benzo[k]fluoranthene	663	726.2		ug/Kg		110	42 - 134
Benzo[a]pyrene	663	719.7		ug/Kg		109	44 - 131
Indeno[1,2,3-cd]pyrene	663	738.7		ug/Kg		111	35 - 146
Dibenz(a,h)anthracene	663	775.0		ug/Kg		117	40 - 137
Benzo[g,h,i]perylene	663	778.5		ug/Kg		117	38 - 142
bis (2-chloroisopropyl) ether	663	638.6		ug/Kg		96	38 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	100		10 - 148

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	98		38 - 130
2-Fluorophenol	91		25 - 132
Nitrobenzene-d5	95		10 - 155
Terphenyl-d14	112		53 - 134
Phenol-d5 (Surr)	93		27 - 130

Lab Sample ID: 600-209483-2 MS

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
N-Nitrosodimethylamine	4.54	U	725	551.6		ug/Kg	✱	76	29 - 130
Bis(2-chloroethyl)ether	1.79	U	725	603.3		ug/Kg	✱	83	40 - 130
Hexachloroethane	2.50	U	725	531.4		ug/Kg	✱	73	37 - 130
Nitrobenzene	3.21	U	725	601.0		ug/Kg	✱	83	42 - 130
Isophorone	1.08	U	725	601.6		ug/Kg	✱	83	39 - 130
2,4-Dichlorophenol	4.20	U	725	575.3		ug/Kg	✱	79	38 - 130
Naphthalene	1.46	U	725	579.5		ug/Kg	✱	80	40 - 130
Hexachlorobutadiene	2.08	U	725	578.9		ug/Kg	✱	80	36 - 130
2-Methylnaphthalene	2.97	U	725	622.3		ug/Kg	✱	86	43 - 130
1-Methylnaphthalene	1.70	U	725	599.6		ug/Kg	✱	83	43 - 130
1,2,4,5-Tetrachlorobenzene	7.32	U	725	595.5		ug/Kg	✱	82	37 - 130
Hexachlorocyclopentadiene	5.00	U	725	444.8		ug/Kg	✱	61	10 - 130
2,4,6-Trichlorophenol	2.91	U	725	601.8		ug/Kg	✱	83	39 - 130
2,4,5-Trichlorophenol	10.9	U	725	656.5		ug/Kg	✱	91	41 - 130
Dimethyl phthalate	5.30	U	725	679.4		ug/Kg	✱	94	40 - 130
Acenaphthylene	1.08	U	725	639.5		ug/Kg	✱	88	39 - 130
2,6-Dinitrotoluene	3.20	U	725	671.5		ug/Kg	✱	93	44 - 130
Acenaphthene	1.56	U	725	629.0		ug/Kg	✱	87	42 - 130
Dinitrophenols	5.12	U	1450	457.0		ug/Kg	✱	32	15 - 130
2,4-Dinitrotoluene	3.91	U	725	708.6		ug/Kg	✱	98	45 - 130
Diethyl phthalate	9.14	U	725	736.4		ug/Kg	✱	102	50 - 130
Fluorene	2.56	U	725	670.8		ug/Kg	✱	93	46 - 130
Dinitro-o-cresol	5.40	U	1450	838.3		ug/Kg	✱	58	38 - 130
N-Nitrosodiphenylamine	2.05	U	725	769.0		ug/Kg	✱	106	48 - 130
Diphenylhydrazine, 1,2-	1.76	U	725	750.1		ug/Kg	✱	103	50 - 130
Hexachlorobenzene	1.65	U	725	713.6		ug/Kg	✱	98	44 - 130
Atrazine	5.44	U	725	517.1		ug/Kg	✱	71	10 - 140
Pentachlorophenol	4.34	U	1450	1048		ug/Kg	✱	72	40 - 130
Phenanthrene	5.37	U	725	759.6		ug/Kg	✱	105	51 - 130
Anthracene	1.39	U	725	790.6		ug/Kg	✱	109	51 - 130
Dibutylphthalate	2.81	U	725	912.6		ug/Kg	✱	126	51 - 135
Fluoranthene	3.37	U	725	800.5		ug/Kg	✱	110	53 - 130
Benzidine	9.78	U	3620	1070		ug/Kg	✱	30	10 - 130
Pyrene	1.98	U	725	823.7		ug/Kg	✱	114	53 - 130
Dichlorobenzidine, 3,3'-	11.0	U	725	582.5		ug/Kg	✱	80	13 - 146
Benzo[a]anthracene	1.50	U	725	803.6		ug/Kg	✱	111	54 - 130
Di (2-ethylhexyl)phthalate	5.82	U	725	892.7		ug/Kg	✱	120	41 - 145

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 600-209483-2 MS

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 301300

Prep Batch: 300979

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	1.11	U	725	821.1		ug/Kg	✱	113	52 - 130
Benzo[b]fluoranthene	1.87	U	725	785.3		ug/Kg	✱	108	41 - 139
Benzo[k]fluoranthene	1.62	U	725	768.2		ug/Kg	✱	106	42 - 134
Benzo[a]pyrene	1.75	U	725	750.5		ug/Kg	✱	104	44 - 131
Indeno[1,2,3-cd]pyrene	3.80	U	725	814.1		ug/Kg	✱	112	35 - 146
Dibenz(a,h)anthracene	3.94	U	725	841.3		ug/Kg	✱	116	40 - 137
Benzo[g,h,i]perylene	5.50	U	725	860.7		ug/Kg	✱	119	38 - 142
bis (2-chloroisopropyl) ether	9.59	U	725	572.5		ug/Kg	✱	79	38 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol	88		10 - 148
2-Fluorobiphenyl	80		38 - 130
2-Fluorophenol	75		25 - 132
Nitrobenzene-d5	79		10 - 155
Terphenyl-d14	106		53 - 134
Phenol-d5 (Surr)	60		27 - 130

Lab Sample ID: 600-209483-2 MSD

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 301300

Prep Batch: 300979

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodimethylamine	4.54	U	722	605.0		ug/Kg	✱	84	29 - 130	9	30
Bis(2-chloroethyl)ether	1.79	U	722	613.8		ug/Kg	✱	85	40 - 130	2	30
Hexachloroethane	2.50	U	722	583.0		ug/Kg	✱	81	37 - 130	9	30
Nitrobenzene	3.21	U	722	631.5		ug/Kg	✱	87	42 - 130	5	30
Isophorone	1.08	U	722	647.4		ug/Kg	✱	90	39 - 130	7	30
2,4-Dichlorophenol	4.20	U	722	674.7		ug/Kg	✱	93	38 - 130	16	30
Naphthalene	1.46	U	722	623.2		ug/Kg	✱	86	40 - 130	7	30
Hexachlorobutadiene	2.08	U	722	593.4		ug/Kg	✱	82	36 - 130	2	30
2-Methylnaphthalene	2.97	U	722	672.2		ug/Kg	✱	93	43 - 130	8	30
1-Methylnaphthalene	1.70	U	722	639.6		ug/Kg	✱	89	43 - 130	6	30
1,2,4,5-Tetrachlorobenzene	7.32	U	722	640.1		ug/Kg	✱	89	37 - 130	7	30
Hexachlorocyclopentadiene	5.00	U	722	472.1		ug/Kg	✱	65	10 - 130	6	30
2,4,6-Trichlorophenol	2.91	U	722	617.0		ug/Kg	✱	85	39 - 130	3	30
2,4,5-Trichlorophenol	10.9	U	722	731.1		ug/Kg	✱	101	41 - 130	11	30
Dimethyl phthalate	5.30	U	722	738.8		ug/Kg	✱	102	40 - 130	8	30
Acenaphthylene	1.08	U	722	702.2		ug/Kg	✱	97	39 - 130	9	30
2,6-Dinitrotoluene	3.20	U	722	714.5		ug/Kg	✱	99	44 - 130	6	30
Acenaphthene	1.56	U	722	674.3		ug/Kg	✱	93	42 - 130	7	30
Dinitrophenols	5.12	U	1440	860.0	N2	ug/Kg	✱	60	15 - 130	61	30
2,4-Dinitrotoluene	3.91	U	722	729.2		ug/Kg	✱	101	45 - 130	3	30
Diethyl phthalate	9.14	U	722	766.8		ug/Kg	✱	106	50 - 130	4	30
Fluorene	2.56	U	722	712.3		ug/Kg	✱	99	46 - 130	6	30
Dinitro-o-cresol	5.40	U	1440	1091		ug/Kg	✱	76	38 - 130	26	30
N-Nitrosodiphenylamine	2.05	U	722	791.1		ug/Kg	✱	110	48 - 130	3	30
Diphenylhydrazine, 1,2-	1.76	U	722	775.0		ug/Kg	✱	107	50 - 130	3	30
Hexachlorobenzene	1.65	U	722	743.7		ug/Kg	✱	103	44 - 130	4	30

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 600-209483-2 MSD

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 301300

Prep Batch: 300979

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Atrazine	5.44	U	722	561.4		ug/Kg	✱	78	10 - 140	8	30
Pentachlorophenol	4.34	U	1440	1101		ug/Kg	✱	76	40 - 130	5	30
Phenanthrene	5.37	U	722	809.9		ug/Kg	✱	112	51 - 130	6	30
Anthracene	1.39	U	722	809.9		ug/Kg	✱	112	51 - 130	2	30
Dibutylphthalate	2.81	U	722	918.4		ug/Kg	✱	127	51 - 135	1	30
Fluoranthene	3.37	U	722	824.3		ug/Kg	✱	114	53 - 130	3	30
Benzidine	9.78	U	3610	578.6	N2	ug/Kg	✱	16	10 - 130	60	40
Pyrene	1.98	U	722	856.5		ug/Kg	✱	119	53 - 130	4	30
Dichlorobenzidine, 3,3'-	11.0	U	722	541.9		ug/Kg	✱	75	13 - 146	7	30
Benzo[a]anthracene	1.50	U	722	822.6		ug/Kg	✱	114	54 - 130	2	30
Di (2-ethylhexyl)phthalate	5.82	U	722	902.9		ug/Kg	✱	122	41 - 145	1	30
Chrysene	1.11	U	722	839.1		ug/Kg	✱	116	52 - 130	2	30
Benzo[b]fluoranthene	1.87	U	722	902.0		ug/Kg	✱	125	41 - 139	14	30
Benzo[k]fluoranthene	1.62	U	722	823.2		ug/Kg	✱	114	42 - 134	7	30
Benzo[a]pyrene	1.75	U	722	776.3		ug/Kg	✱	108	44 - 131	3	30
Indeno[1,2,3-cd]pyrene	3.80	U	722	826.2		ug/Kg	✱	114	35 - 146	1	30
Dibenz(a,h)anthracene	3.94	U	722	869.5		ug/Kg	✱	120	40 - 137	3	30
Benzo[g,h,i]perylene	5.50	U	722	909.6		ug/Kg	✱	126	38 - 142	6	30
bis (2-chloroisopropyl) ether	9.59	U	722	612.2		ug/Kg	✱	85	38 - 130	7	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol	90		10 - 148
2-Fluorobiphenyl	90		38 - 130
2-Fluorophenol	84		25 - 132
Nitrobenzene-d5	86		10 - 155
Terphenyl-d14	110		53 - 134
Phenol-d5 (Surr)	83		27 - 130

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-500496/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 500677

Prep Batch: 500496

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		08/17/20 09:48	08/18/20 13:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	86		30 - 164	08/17/20 09:48	08/18/20 13:08	1

Lab Sample ID: LCS 400-500496/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 500677

Prep Batch: 500496

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Prometon	333	320.1		ug/Kg		96	40 - 140

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: 8270D - Pesticides by GC/MS (Continued)

Lab Sample ID: LCS 400-500496/2-A

Matrix: Solid

Analysis Batch: 500677

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 500496

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Triphenylphosphate	94		30 - 164

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-300708/3-A

Matrix: Solid

Analysis Batch: 300709

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300708

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg		08/08/20 07:14	08/08/20 09:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		70 - 130	08/08/20 07:14	08/08/20 09:47	1

Lab Sample ID: LCS 600-300708/1-A

Matrix: Solid

Analysis Batch: 300709

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300708

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]	5.04	5.069		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	96		70 - 130

Lab Sample ID: LCSD 600-300708/2-A

Matrix: Solid

Analysis Batch: 300709

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300708

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	5.04	5.417		mg/Kg		108	70 - 130	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	96		70 - 130

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

Lab Sample ID: MB 600-300806/1-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg		08/10/20 15:56	08/13/20 11:51	1
C28-C36	4.97	U	4.97	4.97	mg/Kg		08/10/20 15:56	08/13/20 11:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	125		60 - 140	08/10/20 15:56	08/13/20 11:51	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

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

Lab Sample ID: LCS 600-300806/2-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.6	70.64		mg/Kg		106	66 - 134
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
o-Terphenyl	131		60 - 140				

Lab Sample ID: LCSD 600-300806/3-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300806

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Diesel Range Organics [C10-C28]			66.6	75.11		mg/Kg		113	66 - 134	6	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
o-Terphenyl	131		60 - 140								

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 600-300862/1-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300862

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aldrin	1.30	U	1.69	1.30	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, beta-	1.02	U	1.69	1.02	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, delta-	0.847	U	1.69	0.847	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, alpha-	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, gamma-	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Chlordane (technical)	23.3	U	74.7	23.3	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
DDT	1.84	U	3.29	1.84	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Dieldrin	1.38	U	3.29	1.38	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan I	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan II	1.50	U	3.29	1.50	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan sulfate	1.67	U	3.29	1.67	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin	1.52	U	3.29	1.52	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin aldehyde	1.55	U	3.29	1.55	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor epoxide	1.17	U	1.69	1.17	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Toxaphene	72.8	U	169	72.8	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	127		47 - 150				08/11/20 08:51	08/11/20 19:37	1
Tetrachloro-m-xylene	116		50 - 143				08/11/20 08:51	08/11/20 19:37	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 600-300862/2-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.6	18.06		ug/Kg		109	42 - 150
Hexachlorocyclohexane, beta-	16.6	18.03		ug/Kg		108	32 - 150
Hexachlorocyclohexane, delta-	16.6	20.49		ug/Kg		123	33 - 150
Hexachlorocyclohexane, alpha-	16.6	18.14		ug/Kg		109	63 - 130
Hexachlorocyclohexane, gamma-	16.6	18.30		ug/Kg		110	36 - 150
DDT	16.6	22.31		ug/Kg		134	46 - 150
Dieldrin	16.6	18.72		ug/Kg		113	42 - 150
Endosulfan I	16.6	13.84		ug/Kg		83	37 - 150
Endosulfan II	16.6	18.94		ug/Kg		114	43 - 150
Endosulfan sulfate	16.6	20.02		ug/Kg		120	32 - 150
Endrin	16.6	20.38		ug/Kg		123	41 - 150
Endrin aldehyde	16.6	22.48		ug/Kg		135	42 - 150
Heptachlor	16.6	18.17		ug/Kg		109	35 - 150
Heptachlor epoxide	16.6	17.12		ug/Kg		103	42 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	76		47 - 150
Tetrachloro-m-xylene	74		50 - 143

Lab Sample ID: LCSD 600-300862/3-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	16.6	17.36		ug/Kg		104	42 - 150	4	20
Hexachlorocyclohexane, beta-	16.6	18.09		ug/Kg		109	32 - 150	0	20
Hexachlorocyclohexane, delta-	16.6	20.47		ug/Kg		123	33 - 150	0	20
Hexachlorocyclohexane, alpha-	16.6	16.93		ug/Kg		102	63 - 130	7	20
Hexachlorocyclohexane, gamma-	16.6	17.29		ug/Kg		104	36 - 150	6	20
DDT	16.6	22.58		ug/Kg		136	46 - 150	1	20
Dieldrin	16.6	18.96		ug/Kg		114	42 - 150	1	20
Endosulfan I	16.6	14.22		ug/Kg		86	37 - 150	3	20
Endosulfan II	16.6	18.23		ug/Kg		110	43 - 150	4	20
Endosulfan sulfate	16.6	20.67		ug/Kg		124	32 - 150	3	20
Endrin	16.6	21.64		ug/Kg		130	41 - 150	6	20
Endrin aldehyde	16.6	23.30		ug/Kg		140	42 - 150	4	20
Heptachlor	16.6	16.75		ug/Kg		101	35 - 150	8	20
Heptachlor epoxide	16.6	16.99		ug/Kg		102	42 - 150	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	104		47 - 150
Tetrachloro-m-xylene	89		50 - 143

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 600-300862/1-A

Matrix: Solid

Analysis Batch: 300977

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00159	U	0.0166	0.00159	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1221	0.00860	U	0.0166	0.00860	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1232	0.00667	U	0.0166	0.00667	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1242	0.00124	U	0.0166	0.00124	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1248	0.00248	U	0.0166	0.00248	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1254	0.00220	U	0.0166	0.00220	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1260	0.0134	U	0.0166	0.0134	mg/Kg		08/11/20 08:51	08/12/20 12:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	117		10 - 150	08/11/20 08:51	08/12/20 12:54	1
DCB Decachlorobiphenyl	165	X	10 - 150	08/11/20 08:51	08/12/20 12:54	1

Lab Sample ID: LCS 600-300862/4-A

Matrix: Solid

Analysis Batch: 300977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.166	0.1532		mg/Kg		92	42 - 130
PCB-1260	0.166	0.1225		mg/Kg		74	59 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	85		10 - 150
DCB Decachlorobiphenyl	104		10 - 150

Lab Sample ID: LCSD 600-300862/5-A

Matrix: Solid

Analysis Batch: 300977

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	0.166	0.1574		mg/Kg		95	42 - 130	3	30
PCB-1260	0.166	0.1241		mg/Kg		75	59 - 135	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	78		10 - 150
DCB Decachlorobiphenyl	101		10 - 150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/11/20 11:50	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/11/20 11:50	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/12/20 02:57	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/12/20 02:57	1

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	98.87		mg/Kg		99	90 - 110
Nitrite as N	100	101.4		mg/Kg		101	90 - 110

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	91.93		mg/Kg		92	90 - 110
Nitrite as N	100	100.5		mg/Kg		100	90 - 110

Lab Sample ID: 600-209483-1 MS

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	21.2		136	156.0		mg/Kg	⊛	99	80 - 120
Nitrite as N	2.02	U	136	143.3		mg/Kg	⊛	106	80 - 120

Lab Sample ID: 600-209483-1 MSD

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	21.2		136	191.2	N1	mg/Kg	⊛	125	80 - 120	20	20
Nitrite as N	2.02	U	136	145.9		mg/Kg	⊛	107	80 - 120	2	20

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			08/11/20 11:50	1
Fluoride	0.601	U	2.00	0.601	mg/Kg			08/11/20 11:50	1
Sulfate	0.957	U	5.00	0.957	mg/Kg			08/11/20 11:50	1

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	193.0		mg/Kg		97	90 - 110

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	75.0	82.00		mg/Kg		109	90 - 110
Sulfate	200	193.9		mg/Kg		97	90 - 110

Lab Sample ID: 600-209483-1 MS

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	157		679	892.5		mg/Kg	☼	108	80 - 120
Fluoride	9.60	J	136	199.2	N1	mg/Kg	☼	140	80 - 120

Lab Sample ID: 600-209483-1 MSD

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	157		679	1074	N1	mg/Kg	☼	135	80 - 120	18	20
Fluoride	9.60	J	136	243.9	N1	mg/Kg	☼	173	80 - 120	20	20

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-505741/1-A

Matrix: Solid

Analysis Batch: 506218

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505741

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		08/14/20 16:49	08/19/20 22:22	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		08/14/20 16:49	08/19/20 22:22	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		08/14/20 16:49	08/19/20 22:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	102		83 - 122				08/14/20 16:49	08/19/20 22:22	1

Lab Sample ID: LCS 280-505741/2-A

Matrix: Solid

Analysis Batch: 506218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505741

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	1.00	0.9954		mg/Kg		100	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	1.00	0.9354		mg/Kg		94	80 - 124
2,4,6-Trinitrotoluene	1.00	1.089		mg/Kg		109	80 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dinitrobenzene	102		83 - 122				

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 600-209483-2 MS

Matrix: Solid

Analysis Batch: 506218

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Prep Type: Total/NA

Prep Batch: 505741

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	0.0225	U	0.985	0.9613		mg/Kg		98	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0427	U	0.985	0.8243		mg/Kg		84	80 - 124
2,4,6-Trinitrotoluene	0.0305	U	0.985	1.073		mg/Kg		109	80 - 120
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
1,2-Dinitrobenzene	101		83 - 122						

Lab Sample ID: 600-209483-2 MSD

Matrix: Solid

Analysis Batch: 506218

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Prep Type: Total/NA

Prep Batch: 505741

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	0.0225	U	0.973	0.9546		mg/Kg		98	80 - 120	1	30
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0427	U	0.973	0.8212		mg/Kg		84	80 - 124	0	30
2,4,6-Trinitrotoluene	0.0305	U	0.973	1.080		mg/Kg		111	80 - 120	1	30
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
1,2-Dinitrobenzene	103		83 - 122								

Lab Sample ID: 600-209483-2 DU

Matrix: Solid

Analysis Batch: 506218

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Prep Type: Total/NA

Prep Batch: 505741

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	0.0225	U	0.0214	U	mg/Kg		NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0427	U	0.0406	U	mg/Kg		NC	20
2,4,6-Trinitrotoluene	0.0305	U	0.0290	U	mg/Kg		NC	20
Surrogate	DU %Recovery	DU Qualifier	DU Limits					
1,2-Dinitrobenzene	101		83 - 122					

Lab Sample ID: 600-209483-2 TRL

Matrix: Solid

Analysis Batch: 506218

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Prep Type: Total/NA

Prep Batch: 505741

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	0.0225	U	0.0221	U	mg/Kg		NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0427	U	0.0420	U	mg/Kg		NC	20
2,4,6-Trinitrotoluene	0.0305	U	0.0300	U	mg/Kg		NC	20

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 600-209483-2 TRL

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 506218

Prep Batch: 505741

Surrogate	%Recovery	TRL TRL Qualifier	Limits
1,2-Dinitrobenzene	101		83 - 122

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: MB 280-505567/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 506025

Prep Batch: 505567

Analyte	MB MB Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824 U	0.500	0.0824	ug/Kg		08/13/20 12:00	08/20/20 13:29	1

Lab Sample ID: LCS 280-505567/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 506025

Prep Batch: 505567

Analyte	Spike Added	LCS LCS Result Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.4069 J	ug/Kg		81	80 - 120

Lab Sample ID: 600-209483-1 MS

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 506025

Prep Batch: 505567

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS Result Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	1.08		0.647	4.167 N1	ug/Kg	✱	477	70 - 130

Lab Sample ID: 600-209483-1 MSD

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 506025

Prep Batch: 505567

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD Result Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	1.08		0.664	1.465 N1 N2	ug/Kg	✱	58	70 - 130	96	15

Lab Sample ID: DLCK 280-506024/12

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 506024

Analyte	Spike Added	DLCK DLCK Result Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.04997 J	ug/L		100	70 - 130

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-500633/14

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 500633

Analyte	Spike Added	DLCK DLCK Result Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.500	0.4920 J	ug/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4537 J	ug/L		100	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665 U	ug/L		92	70 - 130

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Surrogate	DLCK %Recovery	DLCK Qualifier	Limits
13C8 PFOA	108		57 - 153
13C8 PFOS	91		70 - 130

Lab Sample ID: MB 280-505864/1-A

Matrix: Solid

Analysis Batch: 506717

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505864

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		08/17/20 14:49	08/24/20 11:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		08/17/20 14:49	08/24/20 11:46	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		08/17/20 14:49	08/24/20 11:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	08/17/20 14:49	08/24/20 11:46	1
13C8 PFOS	94		70 - 130	08/17/20 14:49	08/24/20 11:46	1

Lab Sample ID: LCS 280-505864/2-A

Matrix: Solid

Analysis Batch: 506717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	18.81		ug/Kg		94	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	16.81		ug/Kg		92	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	18.69		ug/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
13C8 PFOA	101		57 - 153
13C8 PFOS	98		70 - 130

Lab Sample ID: 600-209483-1 MS

Matrix: Solid

Analysis Batch: 506717

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Prep Type: Total/NA

Prep Batch: 505864

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.308	U	26.0	24.94		ug/Kg	⚡	96	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	0.375	U	23.7	21.16		ug/Kg	⚡	89	70 - 135
Perfluorooctanesulfonic acid (PFOS)	0.187	U	24.1	24.43		ug/Kg	⚡	101	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
13C8 PFOA	104		57 - 153
13C8 PFOS	99		70 - 130

Lab Sample ID: 600-209483-1 MSD

Matrix: Solid

Analysis Batch: 506717

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Prep Type: Total/NA

Prep Batch: 505864

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Perfluorooctanoic acid (PFOA)	0.308	U	26.4	24.67		ug/Kg	⚡	93	70 - 131	1	30

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 600-209483-1 MSD

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 506717

Prep Batch: 505864

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanesulfonic acid (PFHxS)	0.375	U	24.0	22.62		ug/Kg	☼	94	70 - 135	7	30
Perfluorooctanesulfonic acid (PFOS)	0.187	U	24.5	23.81		ug/Kg	☼	97	70 - 130	3	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
13C8 PFOA	101		57 - 153								
13C8 PFOS	97		70 - 130								

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-479336/1-A ^2

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 479582

Prep Batch: 479336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0656	U	0.175	0.0656	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Arsenic	0.350	U	0.875	0.350	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Barium	0.438	U	1.75	0.438	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Cadmium	0.0210	U	0.0438	0.0210	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Chromium	0.394	U	0.875	0.394	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Iron	5.25	U	10.5	5.25	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Copper	0.350	U	0.875	0.350	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Manganese	0.175	U	0.438	0.175	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Lead	0.109	U	0.263	0.109	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Antimony	0.175	U	0.438	0.175	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Selenium	0.280	U	0.438	0.280	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Thallium	0.175	U	0.438	0.175	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Zinc	1.75	U	4.38	1.75	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Uranium	0.0350	U	0.0875	0.0350	mg/Kg		08/13/20 11:03	08/14/20 19:16	2

Lab Sample ID: MB 160-479336/1-A ^2

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 480286

Prep Batch: 479336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.0350	U	0.0875	0.0350	mg/Kg		08/13/20 11:03	08/21/20 17:53	2

Lab Sample ID: LCS 160-479336/2-A ^2

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 479582

Prep Batch: 479336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	19.7	19.01		mg/Kg		96	66 - 133
Arsenic	98.6	102.8		mg/Kg		104	70 - 131
Barium	98.6	96.21		mg/Kg		98	74 - 125
Beryllium	9.87	9.322		mg/Kg		94	74 - 126
Cadmium	98.5	101.0		mg/Kg		103	73 - 139
Chromium	98.6	105.1		mg/Kg		107	69 - 130
Iron	986	1028		mg/Kg		104	32 - 167

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 160-479336/2-A ^2

Matrix: Solid

Analysis Batch: 479582

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 479336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	98.5	112.8		mg/Kg		114	73 - 126
Manganese	98.6	102.7		mg/Kg		104	77 - 124
Lead	98.5	104.5		mg/Kg		106	80 - 120
Antimony	49.3	45.79		mg/Kg		93	21 - 251
Selenium	49.3	50.05		mg/Kg		102	69 - 131
Thallium	19.7	20.63		mg/Kg		105	68 - 131
Zinc	98.5	103.4		mg/Kg		105	71 - 128
Uranium	98.6	103.5		mg/Kg		105	80 - 120

Lab Sample ID: 600-209483-1 MS

Matrix: Solid

Analysis Batch: 479582

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Prep Type: Total/NA

Prep Batch: 479336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.934	U	26.0	24.31		mg/Kg	☼	94	75 - 125
Arsenic	4.98	U	130	138.6		mg/Kg	☼	107	75 - 125
Barium	341		130	483.8		mg/Kg	☼	110	75 - 125
Beryllium	0.498	U	13.0	12.16		mg/Kg	☼	94	75 - 125
Cadmium	1.05		130	127.1		mg/Kg	☼	97	75 - 125
Chromium	5.60	U	130	138.6		mg/Kg	☼	107	75 - 125
Iron	3690		1300	5126		mg/Kg	☼	111	75 - 125
Copper	4.98	U	130	138.5		mg/Kg	☼	107	75 - 125
Manganese	37.6		130	172.5		mg/Kg	☼	104	75 - 125
Lead	3.40	J	130	130.1		mg/Kg	☼	98	75 - 125
Antimony	2.49	U	64.9	42.44	N1	mg/Kg	☼	65	75 - 125
Selenium	3.99	U	64.9	67.48		mg/Kg	☼	104	75 - 125
Thallium	2.49	U	25.9	26.06		mg/Kg	☼	100	75 - 125
Zinc	24.9	U	130	141.2		mg/Kg	☼	109	75 - 125
Uranium	1.59		130	132.8		mg/Kg	☼	101	75 - 125

Lab Sample ID: 600-209483-1 MSD

Matrix: Solid

Analysis Batch: 479582

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Prep Type: Total/NA

Prep Batch: 479336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Silver	0.934	U	26.1	24.59		mg/Kg	☼	94	75 - 125	1	30
Arsenic	4.98	U	131	143.3		mg/Kg	☼	110	75 - 125	3	30
Barium	341		131	435.9	N1	mg/Kg	☼	73	75 - 125	10	30
Beryllium	0.498	U	13.1	12.29		mg/Kg	☼	94	75 - 125	1	30
Cadmium	1.05		130	127.6		mg/Kg	☼	97	75 - 125	0	30
Chromium	5.60	U	131	136.5		mg/Kg	☼	104	75 - 125	2	30
Iron	3690		1310	5120		mg/Kg	☼	109	75 - 125	0	30
Copper	4.98	U	131	139.1		mg/Kg	☼	107	75 - 125	0	30
Manganese	37.6		131	176.6		mg/Kg	☼	106	75 - 125	2	30
Lead	3.40	J	131	132.2		mg/Kg	☼	99	75 - 125	2	30
Antimony	2.49	U	65.3	40.92	N1	mg/Kg	☼	63	75 - 125	4	30
Selenium	3.99	U	65.3	65.79		mg/Kg	☼	101	75 - 125	3	30
Thallium	2.49	U	26.1	26.55		mg/Kg	☼	102	75 - 125	2	30
Zinc	24.9	U	131	147.9		mg/Kg	☼	113	75 - 125	5	30

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 600-209483-1 MSD

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 479582

Prep Batch: 479336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Uranium	1.59		131	133.2		mg/Kg	✱	101	75 - 125	0	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 600-302704/7-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 302818

Prep Batch: 302704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00341	U	0.0162	0.00341	mg/Kg		09/02/20 13:16	09/03/20 13:22	1

Lab Sample ID: LCS 600-302704/8-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 302818

Prep Batch: 302704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.2549		mg/Kg		110	70 - 130

Lab Sample ID: 600-209483-1 MS

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 302818

Prep Batch: 302704

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00486	U	0.339	0.3258		mg/Kg	✱	96	75 - 125

Lab Sample ID: 600-209483-1 DU

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 302818

Prep Batch: 302704

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00486	U	0.007027	J	mg/Kg	✱			

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: LB 600-301544/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: 7 Day Leach

Analysis Batch: 301572

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			08/19/20 12:28	1

Method: 2540B - Percent Moisture

Lab Sample ID: 600-209483-1 DU

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 300861

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.4		25.4		%				
Percent Solids	73.6		74.6		%				

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 600-301255/1-A

Matrix: Solid

Analysis Batch: 301273

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301255

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00150	U	0.0100	0.00150	mg/Kg		08/14/20 14:14	08/14/20 17:08	1

Lab Sample ID: LCS 600-301255/2-A

Matrix: Solid

Analysis Batch: 301273

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301255

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.09574		mg/Kg		96	90 - 110

Method: 9045D - pH

Lab Sample ID: 600-209483-1 DU

Matrix: Solid

Analysis Batch: 302075

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	8.0	H	8.1		SU		0.7	1

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation)

Lab Sample ID: MB 600-301626/1-A

Matrix: Solid

Analysis Batch: 301633

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.004840	J	0.00500	0.00419	mg/Kg		08/19/20 16:29	08/19/20 20:57	1

Lab Sample ID: LCS 600-301626/2-A

Matrix: Solid

Analysis Batch: 301633

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.100	0.1004		mg/Kg		100	90 - 110

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-479981/1-A

Matrix: Solid

Analysis Batch: 482295

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 479981

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03656	U	0.0485	0.0486	1.00	0.529	pCi/g	08/20/20 11:43	09/12/20 09:20	1
Radium-228	0.1104	U	0.223	0.224		0.307	pCi/g	08/20/20 11:43	09/12/20 09:20	1
Combined Radium 226 + 228	0.1470	U	0.228	0.229		0.529	pCi/g	08/20/20 11:43	09/12/20 09:20	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209483-1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: LCS 160-479981/2-A

Matrix: Solid

Analysis Batch: 482368

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 479981

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.5	94.70		9.93		0.973	pCi/g	98	87 - 116
Cesium-137	26.9	25.80		2.74		0.148	pCi/g	96	87 - 120
Cobalt-60	9.78	9.353		0.981		0.0584	pCi/g	96	87 - 115

Lab Sample ID: 600-209483-1 DU

Matrix: Solid

Analysis Batch: 482295

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Prep Type: Total/NA

Prep Batch: 479981

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.846		0.8312		0.213	1.00	0.145	pCi/g	0.04	1
Radium-228	-0.0113	U	0.1079	U	0.269		0.468	pCi/g	0.38	1
Combined Radium 226 + 228	0.835		0.9392		0.343		0.468	pCi/g	0.19	1

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209483-1

Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Analysis Batch: 300707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	8260B	300712
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8260B	300712
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	8260B	300712
MB 600-300707/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-300707/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-300707/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 300712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	5030B	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	5030B	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	5030B	

GC/MS Semi VOA

Prep Batch: 300979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	3546	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	3546	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	3546	
MB 600-300979/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-209483-2 MS	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	3546	
600-209483-2 MSD	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	3546	

Analysis Batch: 301300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	8270C LL	300979
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8270C LL	300979
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	8270C LL	300979
MB 600-300979/1-A	Method Blank	Total/NA	Solid	8270C LL	300979
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
600-209483-2 MS	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8270C LL	300979
600-209483-2 MSD	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8270C LL	300979

Prep Batch: 500496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	3546	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	3546	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	3546	
MB 400-500496/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-500496/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 500677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	8270D	500496
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8270D	500496

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209483-1

Project/Site: Chevron - Jal Land Farm Soils

GC/MS Semi VOA (Continued)

Analysis Batch: 500677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	8270D	500496
MB 400-500496/1-A	Method Blank	Total/NA	Solid	8270D	500496
LCS 400-500496/2-A	Lab Control Sample	Total/NA	Solid	8270D	500496

GC VOA

Prep Batch: 300708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	5030B	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	5030B	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	5030B	
MB 600-300708/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-300708/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-300708/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 300709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	8015B	300708
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8015B	300708
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	8015B	300708
MB 600-300708/3-A	Method Blank	Total/NA	Solid	8015B	300708
LCS 600-300708/1-A	Lab Control Sample	Total/NA	Solid	8015B	300708
LCSD 600-300708/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300708

GC Semi VOA

Prep Batch: 300806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	3546	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	3546	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	3546	
MB 600-300806/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 300862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	3546	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	3546	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	3546	
MB 600-300862/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300862/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
LCSD 600-300862/5-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 300913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	8081A	300862
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8081A	300862
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	8081A	300862
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8081A	300862

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209483-1

GC Semi VOA (Continued)

Analysis Batch: 300913 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	8081A	300862
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	300862

Analysis Batch: 300977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	8082	300862
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8082	300862
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	8082	300862
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8082	300862
LCS 600-300862/4-A	Lab Control Sample	Total/NA	Solid	8082	300862
LCSD 600-300862/5-A	Lab Control Sample Dup	Total/NA	Solid	8082	300862

Analysis Batch: 301085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	8015B	300806
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8015B	300806
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	8015B	300806
MB 600-300806/1-A	Method Blank	Total/NA	Solid	8015B	300806
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	8015B	300806
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300806

HPLC/IC

Analysis Batch: 300880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	300.0	300916
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Soluble	Solid	300.0	300916
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	300.0	300916
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	300.0	300916

Analysis Batch: 300881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	300.0	300916
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Soluble	Solid	300.0	300916
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	300.0	300916
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	300.0	300916

Leach Batch: 300916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	DI Leach	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Soluble	Solid	DI Leach	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Soluble	Solid	DI Leach	
MB 600-300916/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209483-1

Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Leach Batch: 300916 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	DI Leach	
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	DI Leach	

Analysis Batch: 301663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	300.0	300916

ISM Prep Batch: 505447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209483-2 MS	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209483-2 MSD	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209483-2 DU	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209483-2 TRL	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	Increment, prep	

Prep Batch: 505741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	8330B	505447
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505447
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	8330B	505447
MB 280-505741/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-505741/2-A	Lab Control Sample	Total/NA	Solid	8330B	
600-209483-2 MS	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505447
600-209483-2 MSD	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505447
600-209483-2 DU	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505447
600-209483-2 TRL	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505447

Analysis Batch: 506218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	8330B	505741
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505741
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	8330B	505741
MB 280-505741/1-A	Method Blank	Total/NA	Solid	8330B	505741
LCS 280-505741/2-A	Lab Control Sample	Total/NA	Solid	8330B	505741
600-209483-2 MS	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505741
600-209483-2 MSD	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505741
600-209483-2 DU	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505741
600-209483-2 TRL	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505741

LCMS

Analysis Batch: 500633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-500633/14	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Prep Batch: 505567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	6860	

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QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209483-1

Project/Site: Chevron - Jal Land Farm Soils

LCMS (Continued)

Prep Batch: 505567 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	6860	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	6860	
MB 280-505567/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-505567/2-A	Lab Control Sample	Total/NA	Solid	6860	
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	6860	
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	6860	

Prep Batch: 505864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	PFC leach	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	PFC leach	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	PFC leach	
MB 280-505864/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	PFC leach	
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	PFC leach	

Analysis Batch: 506024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-506024/12	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 506025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	6860	505567
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	6860	505567
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	6860	505567
MB 280-505567/1-A	Method Blank	Total/NA	Solid	6860	505567
LCS 280-505567/2-A	Lab Control Sample	Total/NA	Solid	6860	505567
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	6860	505567
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	6860	505567

Analysis Batch: 506717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
MB 280-505864/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	505864
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	505864
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864

Metals

Prep Batch: 302704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	7471B	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	7471B	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	7471B	
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	7471B	

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QC Association Summary

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

Job ID: 600-209483-1

Metals (Continued)

Prep Batch: 302704 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1 DU	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	7471B	

Analysis Batch: 302818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	7471B	302704
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	7471B	302704
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	7471B	302704
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	302704
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	302704
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	7471B	302704
600-209483-1 DU	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	7471B	302704

Prep Batch: 479336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	3050B	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	3050B	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	3050B	
MB 160-479336/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 160-479336/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	3050B	
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	3050B	

Analysis Batch: 479582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	6020	479336
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	6020	479336
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	6020	479336
MB 160-479336/1-A ^2	Method Blank	Total/NA	Solid	6020	479336
LCS 160-479336/2-A ^2	Lab Control Sample	Total/NA	Solid	6020	479336
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	6020	479336
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	6020	479336

Analysis Batch: 480286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	6020	479336
MB 160-479336/1-A ^2	Method Blank	Total/NA	Solid	6020	479336

General Chemistry

Analysis Batch: 300861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	2540B	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	2540B	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	2540B	
600-209483-1 DU	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	2540B	

Prep Batch: 301255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	9012B	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	9012B	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	9012B	

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QC Association Summary

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

Job ID: 600-209483-1

General Chemistry (Continued)

Prep Batch: 301255 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-301255/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 600-301255/2-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 301273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	9012B	301255
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	9012B	301255
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	9012B	301255
MB 600-301255/1-A	Method Blank	Total/NA	Solid	9012B	301255
LCS 600-301255/2-A	Lab Control Sample	Total/NA	Solid	9012B	301255

Leach Batch: 301544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	7 Day Leach	Solid	335.521	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	7 Day Leach	Solid	335.521	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	7 Day Leach	Solid	335.521	
LB 600-301544/1-A	Method Blank	7 Day Leach	Solid	335.521	

Analysis Batch: 301572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301544
600-209483-2	CELL18-SQUARE118-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301544
600-209483-3	CELL18-SQUARE157-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301544
LB 600-301544/1-A	Method Blank	7 Day Leach	Solid	2540 C-1997	301544

Prep Batch: 301626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	Distill/Phenol	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	Distill/Phenol	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	Distill/Phenol	
MB 600-301626/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 600-301626/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 301633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	9066	301626
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	9066	301626
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	9066	301626
MB 600-301626/1-A	Method Blank	Total/NA	Solid	9066	301626
LCS 600-301626/2-A	Lab Control Sample	Total/NA	Solid	9066	301626

Analysis Batch: 302075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	9045D	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	9045D	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	9045D	
LCS 600-302075/1	Lab Control Sample	Total/NA	Solid	9045D	
600-209483-1 DU	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	9045D	

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QC Association Summary

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

Job ID: 600-209483-1

Rad

Leach Batch: 479526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	Dry and Grind	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	Dry and Grind	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	Dry and Grind	
600-209483-1 DU	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	Dry and Grind	

Prep Batch: 479981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479526
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479526
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479526
MB 160-479981/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-479981/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
600-209483-1 DU	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479526

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.

Job ID: 600-209483-1

Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Lab Sample ID: 600-209483-1

Date Collected: 08/06/20 13:05

Matrix: Solid

Date Received: 08/07/20 09:20

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					505447	08/12/20 15:26	EKB	TAL DEN
Total/NA	Prep	8330B			10.13 g	40 mL	505741	08/14/20 16:49	TEH	TAL DEN
Total/NA	Analysis	8330B		1			506218	08/19/20 23:08	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301544	08/12/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	50 mL	100 mL	301572	08/19/20 12:28	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300861	08/11/20 08:50	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.04 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479526	08/14/20 11:54	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			335.3 g	1.0 g	479981	08/20/20 11:43	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			482294	09/12/20 09:55	SCB	TAL SL

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Lab Sample ID: 600-209483-1

Date Collected: 08/06/20 13:05

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 73.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.63 g	5 mL	300712	08/08/20 08:54	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	300707	08/08/20 09:26	WS1	TAL HOU
Total/NA	Prep	3546			15.07 g	1.0 mL	300979	08/12/20 09:49	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 10:01	TTD	TAL HOU
Total/NA	Prep	3546			15.53 g	1 mL	500496	08/17/20 09:48	SHB	TAL PEN
Total/NA	Analysis	8270D		1			500677	08/18/20 18:35	PP1	TAL PEN
Total/NA	Prep	5030B			9.90 g	10 mL	300708	08/08/20 07:14	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	300709	08/08/20 10:12	WS1	TAL HOU
Total/NA	Prep	3546			15.06 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 13:34	RJV	TAL HOU
Total/NA	Prep	3546			15.05 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/11/20 20:51	JAL	TAL HOU
Total/NA	Prep	3546			15.05 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			300977	08/12/20 14:26	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		5			300880	08/11/20 17:25	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		5			300881	08/11/20 17:25	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		50	5 mL	1.0 mL	301663	08/20/20 20:32	DAW	TAL HOU
Total/NA	Prep	6860			10.74 g	100 mL	505567	08/13/20 12:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506025	08/20/20 13:45	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.144 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 12:04	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5451 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			479582	08/14/20 19:28	FLC	TAL SL
Total/NA	Prep	7471B			0.60 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:26	DCL	TAL HOU

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Lab Chronicle

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

Job ID: 600-209483-1

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Lab Sample ID: 600-209483-1

Date Collected: 08/06/20 13:05

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 73.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012B			0.530 g	6.0 mL	301255	08/14/20 14:14	AML	TAL HOU
Total/NA	Analysis	9012B		1			301273	08/14/20 17:13	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.503 g	50.0 mL	301626	08/19/20 16:29	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301633	08/19/20 20:34	AML	TAL HOU

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Lab Sample ID: 600-209483-2

Date Collected: 08/06/20 13:36

Matrix: Solid

Date Received: 08/07/20 09:20

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					505447	08/12/20 15:26	EKB	TAL DEN
Total/NA	Prep	8330B			10.07 g	40 mL	505741	08/14/20 16:49	TEH	TAL DEN
Total/NA	Analysis	8330B		1			506218	08/19/20 23:31	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301544	08/12/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301572	08/19/20 12:28	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300861	08/11/20 08:50	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.13 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479526	08/14/20 11:54	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			387.7 g	1.0 g	479981	08/20/20 11:43	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			482295	09/12/20 09:54	SCB	TAL SL

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Lab Sample ID: 600-209483-2

Date Collected: 08/06/20 13:36

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.85 g	5 mL	300712	08/08/20 08:54	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	300707	08/08/20 09:49	WS1	TAL HOU
Total/NA	Prep	3546			15.07 g	1.0 mL	300979	08/12/20 09:49	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1	1 mL	1.0 mL	301300	08/17/20 10:24	TTD	TAL HOU
Total/NA	Prep	3546			15.38 g	1 mL	500496	08/17/20 09:48	SHB	TAL PEN
Total/NA	Analysis	8270D		1			500677	08/18/20 19:00	PP1	TAL PEN
Total/NA	Prep	5030B			10.20 g	10 mL	300708	08/08/20 07:14	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	300709	08/08/20 10:37	WS1	TAL HOU
Total/NA	Prep	3546			10.04 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 14:08	RJV	TAL HOU
Total/NA	Prep	3546			15.05 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/11/20 21:16	JAL	TAL HOU
Total/NA	Prep	3546			15.05 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			300977	08/12/20 14:51	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 18:26	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 18:26	W1N	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Lab Sample ID: 600-209483-2

Date Collected: 08/06/20 13:36

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	6860			10.50 g	100 mL	505567	08/13/20 12:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506025	08/20/20 14:00	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.1 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 12:30	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5208 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			479582	08/14/20 19:39	FLC	TAL SL
Total/NA	Prep	3050B			0.5208 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		100			480286	08/21/20 17:55	FLC	TAL SL
Total/NA	Prep	7471B			0.61 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:33	DCL	TAL HOU
Total/NA	Prep	9012B			0.516 g	6.0 mL	301255	08/14/20 14:14	AML	TAL HOU
Total/NA	Analysis	9012B		1			301273	08/14/20 17:13	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.506 g	50.0 mL	301626	08/19/20 16:29	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301633	08/19/20 20:35	AML	TAL HOU

Client Sample ID: CELL18-SQUARE157-S-2-3-200806

Lab Sample ID: 600-209483-3

Date Collected: 08/06/20 14:10

Matrix: Solid

Date Received: 08/07/20 09:20

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					505447	08/12/20 15:26	EKB	TAL DEN
Total/NA	Prep	8330B			10.36 g	40 mL	505741	08/14/20 16:49	TEH	TAL DEN
Total/NA	Analysis	8330B		1			506218	08/20/20 01:27	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301544	08/12/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301572	08/19/20 12:28	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300861	08/11/20 08:50	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.01 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479526	08/14/20 11:54	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			351 g	1.0 g	479981	08/20/20 11:43	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			482298	09/12/20 09:53	SCB	TAL SL

Client Sample ID: CELL18-SQUARE157-S-2-3-200806

Lab Sample ID: 600-209483-3

Date Collected: 08/06/20 14:10

Matrix: Solid

Date Received: 08/07/20 09:20

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	5030B			4.52 g	5 mL	300712	08/08/20 08:54	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	300707	08/08/20 10:12	WS1	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	300979	08/12/20 09:52	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 11:36	TTD	TAL HOU
Total/NA	Prep	3546			15.00 g	1 mL	500496	08/17/20 09:48	SHB	TAL PEN
Total/NA	Analysis	8270D		1			500677	08/18/20 19:25	PP1	TAL PEN
Total/NA	Prep	5030B			9.40 g	10 mL	300708	08/08/20 07:14	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	300709	08/08/20 11:02	WS1	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE157-S-2-3-200806

Lab Sample ID: 600-209483-3

Date Collected: 08/06/20 14:10

Matrix: Solid

Date Received: 08/07/20 09:20

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	3546			10.04 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 14:42	RJV	TAL HOU
Total/NA	Prep	3546			15.03 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/11/20 21:40	JAL	TAL HOU
Total/NA	Prep	3546			15.03 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			300977	08/12/20 15:16	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 18:47	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 18:47	W1N	TAL HOU
Total/NA	Prep	6860			10.49 g	100 mL	505567	08/13/20 12:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506025	08/20/20 14:05	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.52 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 12:39	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5619 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			479582	08/14/20 19:42	FLC	TAL SL
Total/NA	Prep	7471B			0.64 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:36	DCL	TAL HOU
Total/NA	Prep	9012B			0.530 g	6.0 mL	301255	08/14/20 14:14	AML	TAL HOU
Total/NA	Analysis	9012B		1			301273	08/14/20 17:14	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.509 g	50.0 mL	301626	08/19/20 16:29	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301633	08/19/20 20:36	AML	TAL HOU

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

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

Job ID: 600-209483-1

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-20-26	10-31-20
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
2540 C-1997		Solid	Total Dissolved Solids
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	C28-C36
8260B	5030B	Solid	1,3-Dichloropropene, Total
8270C LL	3546	Solid	1-Methylnaphthalene
8270C LL	3546	Solid	Atrazine
8270C LL	3546	Solid	Thiophene, tetrahydro-, 1,1-dioxide
9045D		Solid	pH

Laboratory: Eurofins TestAmerica, Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-21
Alaska (UST)	State	18-001	02-08-21
Arizona	State	AZ0713	12-20-20
Arkansas DEQ	State	19-047-0	06-01-21
California	State	2513	01-08-21
Connecticut	State	PH-0686	09-30-20
Florida	NELAP	E87667-57	07-01-21
Georgia	State	4025-011	01-09-21
Illinois	NELAP	2000172019-1	04-30-21
Iowa	State	IA#370	12-01-20
Kansas	NELAP	E-10166	04-30-21
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-21
Maine	State	2019011 (231)	03-03-21
Minnesota	NELAP	1788752	12-31-20
Nevada	State	CO000262020-1	07-31-21
New Hampshire	NELAP	205319	04-29-21
New Jersey	NELAP	190002	06-30-21
New York	NELAP	59923	04-01-21
North Carolina (WW/SW)	State	358	12-31-20
North Dakota	State	R-034	01-08-21
Oklahoma	State	2018-006	08-31-20
Oregon	NELAP	4025-011	01-08-21
Pennsylvania	NELAP	013	07-31-21
South Carolina	State	72002001	01-08-21
Texas	NELAP	T104704183-19-17	09-30-20
US Fish & Wildlife	US Federal Programs	058448	08-01-21
USDA	US Federal Programs	P330-18-00099	03-26-21
Utah	NELAP	QUAN5	06-30-13 *

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

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209483-1

Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, Denver (Continued)

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

Authority	Program	Identification Number	Expiration Date
Utah	NELAP	CO000262019-11	07-31-21
Virginia	NELAP	10490	06-14-21
Washington	State	C583-19	08-03-21
West Virginia DEP	State	354	11-30-20
Wisconsin	State	999615430	08-31-20
Wyoming (UST)	A2LA	2907.01	10-31-21

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-22
Kansas	NELAP	E-10253	10-31-20
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	09-30-20

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209483-1

Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, 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	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	09-13-20
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	09-14-20
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-20

Eurofins TestAmerica, Houston

[illegible]

Loc: 600

209483

Eurofins TestAmerica Houston

Environment Testing
TestAmerica

Sample Receipt Checklist

20 AUG 7 0:20

JOB NUMBER: _____ Date/Time Received: _____
CLIENT: Arcadis
UNPACKED BY: _____ CARRIER/DRIVER: Fedex

Custody Seal Present: ☒ YES ☐ NONumber of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
8240	Y / N	Y / N	3.6	680	+0.1	3.7
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒ YES ☐ NOLABORATORY PRESERVATION OF SAMPLES REQUIRED: ☒ NO ☐ YESBase samples are > pH 12: ☐ YES ☐ NOAcid preserved are < pH 2: ☐ YES ☐ NOTX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot # _____

VOA headspace acceptable (5-6mm): ☐ YES ☐ NO ☒ NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

☒ YES ☐ NO

COMMENTS:

HS-SA-WI-013

Rev. 4A; 08/26/2019

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

 eurofins

Environment Testing,
America

[illegible]

[illegible]

Environment Testing
America

100

Ver: 01/16/2019

Do Not Lift Heir

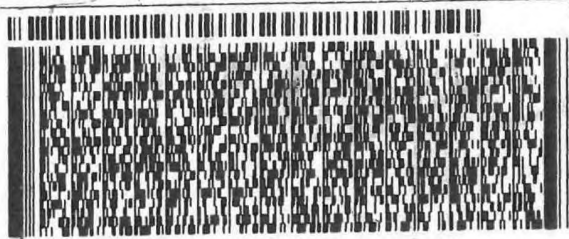
SHIPPING DEPT
TESTAMERICA HOUSTON LAB
6310 ROTHWAY ST
HOUSTON, TX 77040
UNITED STATES US

TO **SHIPPING/RECEIVING**
TESTAMERICA LABORATORIES INC.
3355 MCLEMORE DRIVE

PENSACOLA FL 32514

(850) 474-1001
PO: YES

REF: S600-78554



FedEx
Express



WED - 12 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 1684 2643 6138
0201

XH PNSA

32514
FL-US **BFM**

al

eurofins

Environment Testing
TestAmerica

947352

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-209483-1

Login Number: 209483

List Source: Eurofins TestAmerica, Houston

List Number: 1

Creator: Upton, Cathy L

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	3.7
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.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-209483-1

Login Number: 209483

List Number: 2

Creator: Schade, Daniel B

List Source: Eurofins TestAmerica, Denver

List Creation: 08/12/20 01:08 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.	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.	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").	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: 600-209483-1

Login Number: 209483

List Number: 3

Creator: Whitley, Adrian

List Source: Eurofins TestAmerica, Pensacola

List Creation: 08/12/20 04:52 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	947352
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	1.3°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: 600-209483-1

Login Number: 209483

List Number: 4

Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/12/20 05:12 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	



Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-209485-1

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:
9/15/2020 10:18:35 AM

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

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-209485-1

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Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209485-1

Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
8270D	Pesticides by GC/MS	SW846	TAL PEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
8081A	Organochlorine Pesticides (GC)	SW846	TAL HOU
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL HOU
2540 C-1997	Total Dissolved Solids (Dried at 180 °C)	SM	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
9012B	Cyanide, Total and/or Amenable	SW846	TAL HOU
9045D	pH	SW846	TAL HOU
9066	Phenolics (Colorimetric, 4-AAP with Distillation)	SW846	TAL HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
3050B	Preparation, Metals	SW846	TAL SL
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
3546	Microwave Extraction	SW846	TAL PEN
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471B	Mercury in Solid or Semi-Solid Waste (Manual Cold Vapor Technique)/Preparation	SW846	TAL HOU
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU
Distill/Phenol	Distillation, Phenolics	None	TAL HOU
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"

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

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.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Houston

Sample Summary

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

Job ID: 600-209485-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Solid	08/06/20 10:47	08/07/20 09:20	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Solid	08/06/20 11:30	08/07/20 09:20	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Solid	08/06/20 12:27	08/07/20 09:20	

Client Sample Results

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

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE197-S-2-3-200806

Lab Sample ID: 600-209485-1

Date Collected: 08/06/20 10:47

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 89.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.85	U	11.2	1.85	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Vinyl chloride	1.00	U	11.2	1.00	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Bromomethane	0.927	U *	11.2	0.927	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Trichlorofluoromethane	0.737	U	11.2	0.737	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Acrolein	6.95	U	27.9	6.95	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
1,1-Dichloroethene	1.36	U	5.58	1.36	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
trans-1,2-Dichloroethene	1.27	U	5.58	1.27	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Methyl tert-butyl ether	2.04	U	5.58	2.04	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Methylene Chloride	2.44	U	11.2	2.44	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Acrylonitrile	6.50	U	55.8	6.50	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
cis-1,2-Dichloroethene	0.927	U	5.58	0.927	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Carbon tetrachloride	1.26	U	5.58	1.26	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Benzene	0.703	U	5.58	0.703	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
1,2-Dichloroethane	1.00	U	5.58	1.00	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Trichloroethene	1.56	U	5.58	1.56	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
1,1,1-Trichloroethane	0.826	U	5.58	0.826	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
1,1-Dichloroethane	0.971	U	5.58	0.971	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
1,2-Dichloropropane	0.793	U	5.58	0.793	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
1,4-Dioxane	69.3	U	558	69.3	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Chloroform	1.05	J b	11.2	0.737	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Bromodichloromethane	0.737	U	5.58	0.737	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
1,1-Dichloropropene	0.726	U	5.58	0.726	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
cis-1,3-Dichloropropene	0.603	U	5.58	0.603	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Toluene	1.54	U	5.58	1.54	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
trans-1,3-Dichloropropene	0.647	U	5.58	0.647	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
1,1,2-Trichloroethane	0.815	U	5.58	0.815	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Tetrachloroethene	0.793	U	5.58	0.793	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
1,3-Dichloropropene, Total	0.647	U	5.58	0.647	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
1,2-Dibromoethane	1.14	U	5.58	1.14	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Monochlorobenzene	1.07	U	5.58	1.07	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Ethylbenzene	1.14	U	5.58	1.14	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Xylenes, Total	1.26	U	5.58	1.26	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Styrene	0.793	U	5.58	0.793	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Tribromomethane	1.53	U	5.58	1.53	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
1,1,2,2-Tetrachloroethane	0.971	U	5.58	0.971	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
1,4-Dichlorobenzene	0.737	U	5.58	0.737	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
1,2-Dichlorobenzene	0.893	U	5.58	0.893	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
1,2,4-Trichlorobenzene	2.20	U	5.58	2.20	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1
Dichlorodifluoromethane	1.72	U	5.58	1.72	ug/Kg	☆	08/08/20 10:45	08/08/20 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		61 - 130	08/08/20 10:45	08/08/20 12:53	1
Dibromofluoromethane	82		68 - 140	08/08/20 10:45	08/08/20 12:53	1
Toluene-d8 (Surr)	94		50 - 130	08/08/20 10:45	08/08/20 12:53	1
4-Bromofluorobenzene	102		57 - 140	08/08/20 10:45	08/08/20 12:53	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.63	U	36.8	4.63	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
N-Nitrosodiethylamine	7.94	U *	36.8	7.94	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE197-S-2-3-200806

Lab Sample ID: 600-209485-1

Date Collected: 08/06/20 10:47

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 89.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	1.82	U	36.8	1.82	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Hexachloroethane	2.55	U	36.8	2.55	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
N-Nitrosopyrrolidine	5.16	U *	36.8	5.16	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Nitrobenzene	3.27	U	36.8	3.27	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Isophorone	1.11	U	36.8	1.11	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
2,4-Dichlorophenol	4.28	U	36.8	4.28	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Naphthalene	1.49	U	36.8	1.49	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Hexachlorobutadiene	2.12	U	36.8	2.12	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
N-Nitrosodi-n-butylamine	18.4	U *	36.8	18.4	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
2-Methylnaphthalene	3.03	U	36.8	3.03	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
1-Methylnaphthalene	1.74	U	36.8	1.74	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
1,2,4,5-Tetrachlorobenzene	7.46	U	36.8	7.46	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Hexachlorocyclopentadiene	5.10	U	36.8	5.10	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
2,4,6-Trichlorophenol	2.96	U	36.8	2.96	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
2,4,5-Trichlorophenol	11.1	U	36.8	11.1	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Dimethyl phthalate	5.40	U	73.7	5.40	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Acenaphthylene	1.11	U	36.8	1.11	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
2,6-Dinitrotoluene	3.26	U	36.8	3.26	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Acenaphthene	1.59	U	36.8	1.59	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Dinitrophenols	5.22	U	111	5.22	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Pentachlorobenzene	4.43	U *	36.8	4.43	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
2,4-Dinitrotoluene	3.99	U	36.8	3.99	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Diethyl phthalate	9.32	U	73.7	9.32	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Fluorene	2.61	U	36.8	2.61	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Dinitro-o-cresol	5.50	U	188	5.50	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
N-Nitrosodiphenylamine	2.09	U	36.8	2.09	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Diphenylhydrazine, 1,2-	1.79	U	36.8	1.79	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Hexachlorobenzene	1.68	U	36.8	1.68	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Atrazine	5.55	U	36.8	5.55	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Pentachlorophenol	4.42	U	185	4.42	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Phenanthrene	5.47	U	36.8	5.47	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Anthracene	1.41	U	36.8	1.41	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Dibutylphthalate	2.86	U	73.7	2.86	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Fluoranthene	3.44	U	36.8	3.44	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Benzidine	9.97	U	365	9.97	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Pyrene	2.02	U	36.8	2.02	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Dichlorobenzidine, 3,3'-	11.2	U	36.8	11.2	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Benzo[a]anthracene	1.53	U	36.8	1.53	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Di (2-ethylhexyl)phthalate	5.94	U	36.8	5.94	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Chrysene	1.13	U	36.8	1.13	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Benzo[b]fluoranthene	1.90	U	36.8	1.90	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Benzo[k]fluoranthene	1.65	U	36.8	1.65	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Benzo[a]pyrene	1.78	U	36.8	1.78	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Indeno[1,2,3-cd]pyrene	3.87	U	36.8	3.87	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Dibenz(a,h)anthracene	4.01	U	36.8	4.01	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Benzo[g,h,i]perylene	5.60	U	36.8	5.60	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
bis (2-chloroisopropyl) ether	9.77	U	36.8	9.77	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1
Thiophene, tetrahydro-, 1,1-dioxide	18.4	U	36.8	18.4	ug/Kg	☆	08/12/20 11:16	08/17/20 12:00	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE197-S-2-3-200806

Lab Sample ID: 600-209485-1

Date Collected: 08/06/20 10:47

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 89.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		10 - 148	08/12/20 11:16	08/17/20 12:00	1
2-Fluorobiphenyl	86		38 - 130	08/12/20 11:16	08/17/20 12:00	1
2-Fluorophenol	77		25 - 132	08/12/20 11:16	08/17/20 12:00	1
Nitrobenzene-d5	82		10 - 155	08/12/20 11:16	08/17/20 12:00	1
Terphenyl-d14	101		53 - 134	08/12/20 11:16	08/17/20 12:00	1
Phenol-d5 (Surr)	74		27 - 130	08/12/20 11:16	08/17/20 12:00	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.3	U	72.9	13.3	ug/Kg	☼	08/17/20 09:48	08/18/20 19:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	32		30 - 164				08/17/20 09:48	08/18/20 19:50	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.657	U	1.12	0.657	mg/Kg	☼	08/08/20 07:14	08/08/20 11:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		70 - 130				08/08/20 07:14	08/08/20 11:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.84	U	8.31	2.84	mg/Kg	☼	08/10/20 15:56	08/13/20 15:16	1
C28-C36	30.4		8.31	8.31	mg/Kg	☼	08/10/20 15:56	08/13/20 15:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	72		60 - 140				08/10/20 15:56	08/13/20 15:16	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.45	U	1.88	1.45	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Hexachlorocyclohexane, beta-	1.13	U	1.88	1.13	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Hexachlorocyclohexane, delta-	0.939	U	1.88	0.939	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Hexachlorocyclohexane, alpha-	1.11	U	1.88	1.11	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Hexachlorocyclohexane, gamma-	1.03	U	1.88	1.03	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Chlordane (technical)	25.9	U	82.9	25.9	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
DDT	2.04	U	3.65	2.04	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Dieldrin	1.54	U	3.65	1.54	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Endosulfan I	1.11	U	1.88	1.11	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Endosulfan II	1.67	U	3.65	1.67	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Endosulfan sulfate	1.86	U	3.65	1.86	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Endrin	1.69	U	3.65	1.69	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Endrin aldehyde	1.72	U	3.65	1.72	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Heptachlor	1.03	U	1.88	1.03	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Heptachlor epoxide	1.29	U	1.88	1.29	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Toxaphene	80.8	U	188	80.8	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	69		47 - 150				08/11/20 08:51	08/11/20 22:05	1
Tetrachloro-m-xylene	70		50 - 143				08/11/20 08:51	08/11/20 22:05	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE197-S-2-3-200806

Lab Sample ID: 600-209485-1

Date Collected: 08/06/20 10:47

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 89.9

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00177	U	0.0185	0.00177	mg/Kg	☆	08/11/20 08:51	08/12/20 15:41	1
PCB-1221	0.00954	U	0.0185	0.00954	mg/Kg	☆	08/11/20 08:51	08/12/20 15:41	1
PCB-1232	0.00741	U	0.0185	0.00741	mg/Kg	☆	08/11/20 08:51	08/12/20 15:41	1
PCB-1242	0.00137	U	0.0185	0.00137	mg/Kg	☆	08/11/20 08:51	08/12/20 15:41	1
PCB-1248	0.00275	U	0.0185	0.00275	mg/Kg	☆	08/11/20 08:51	08/12/20 15:41	1
PCB-1254	0.00244	U	0.0185	0.00244	mg/Kg	☆	08/11/20 08:51	08/12/20 15:41	1
PCB-1260	0.0149	U	0.0185	0.0149	mg/Kg	☆	08/11/20 08:51	08/12/20 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		10 - 150	08/11/20 08:51	08/12/20 15:41	1
DCB Decachlorobiphenyl	101		10 - 150	08/11/20 08:51	08/12/20 15:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.83		4.45	0.594	mg/Kg	☆		08/11/20 19:07	1
Nitrate as N	22.7		2.22	0.279	mg/Kg	☆		08/11/20 19:07	1
Fluoride	3.55		2.22	0.669	mg/Kg	☆		08/11/20 19:07	1
Nitrite as N	0.330	U	2.22	0.330	mg/Kg	☆		08/11/20 19:07	1
Sulfate	68.4		5.56	1.06	mg/Kg	☆		08/11/20 19:07	1

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0227	U	0.0998	0.0227	mg/Kg		08/12/20 15:04	08/13/20 17:27	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.200	0.0429	mg/Kg		08/12/20 15:04	08/13/20 17:27	1
2,4,6-Trinitrotoluene	0.0306	U	0.0998	0.0306	mg/Kg		08/12/20 15:04	08/13/20 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	99		83 - 122	08/12/20 15:04	08/13/20 17:27	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.759		0.546	0.0899	ug/Kg	☆	08/12/20 11:00	08/20/20 14:47	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.237	U	0.826	0.237	ug/Kg	☆	08/17/20 14:49	08/24/20 12:47	1
Perfluorohexanesulfonic acid (PFHxS)	0.289	U	0.826	0.289	ug/Kg	☆	08/17/20 14:49	08/24/20 12:47	1
Perfluorooctanesulfonic acid (PFOS)	0.145	U	0.826	0.145	ug/Kg	☆	08/17/20 14:49	08/24/20 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	102		57 - 153	08/17/20 14:49	08/24/20 12:47	1
13C8 PFOS	96		70 - 130	08/17/20 14:49	08/24/20 12:47	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.813	U	2.17	0.813	mg/Kg	☆	08/13/20 11:03	08/14/20 19:44	20
Arsenic	4.33	U	10.8	4.33	mg/Kg	☆	08/13/20 11:03	08/14/20 19:44	20
Barium	122		21.7	5.42	mg/Kg	☆	08/13/20 11:03	08/14/20 19:44	20
Beryllium	0.433	U	1.08	0.433	mg/Kg	☆	08/13/20 11:03	08/14/20 19:44	20
Cadmium	0.260	U	0.542	0.260	mg/Kg	☆	08/13/20 11:03	08/14/20 19:44	20
Chromium	4.88	U	10.8	4.88	mg/Kg	☆	08/13/20 11:03	08/14/20 19:44	20

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE197-S-2-3-200806

Lab Sample ID: 600-209485-1

Date Collected: 08/06/20 10:47

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 89.9

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1700		130	65.0	mg/Kg	☆	08/13/20 11:03	08/14/20 19:44	20
Copper	4.33	U	10.8	4.33	mg/Kg	☆	08/13/20 11:03	08/14/20 19:44	20
Manganese	19.5		5.42	2.17	mg/Kg	☆	08/13/20 11:03	08/14/20 19:44	20
Lead	1.35	U	3.25	1.35	mg/Kg	☆	08/13/20 11:03	08/14/20 19:44	20
Antimony	2.17	U	5.42	2.17	mg/Kg	☆	08/13/20 11:03	08/14/20 19:44	20
Selenium	3.47	U	5.42	3.47	mg/Kg	☆	08/13/20 11:03	08/14/20 19:44	20
Thallium	2.17	U	5.42	2.17	mg/Kg	☆	08/13/20 11:03	08/14/20 19:44	20
Zinc	21.7	U	54.2	21.7	mg/Kg	☆	08/13/20 11:03	08/14/20 19:44	20
Uranium	0.433	U	1.08	0.433	mg/Kg	☆	08/13/20 11:03	08/14/20 19:44	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00385	U	0.0183	0.00385	mg/Kg	☆	09/02/20 13:16	09/03/20 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.1		1.0	1.0	%			08/11/20 08:50	1
Percent Solids	89.9		1.0	1.0	%			08/11/20 08:50	1
Cyanide, Total	0.0188	U	0.125	0.0188	mg/Kg	☆	08/19/20 16:06	08/19/20 22:15	1
pH	9.0	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.759	b	0.554	0.464	mg/Kg	☆	08/19/20 16:29	08/19/20 20:37	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	117		10.0	10.0	mg/L			08/17/20 11:57	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	0.738		0.173	0.189	1.00	0.134	pCi/g	08/20/20 11:43	09/12/20 10:33	1
Radium-228	0.119	U	0.179	0.180		0.318	pCi/g	08/20/20 11:43	09/12/20 10:33	1
Combined Radium 226 + 228	0.857		0.249	0.261		0.318	pCi/g	08/20/20 11:43	09/12/20 10:33	1

Client Sample ID: CELL17-SQUARE152-S-2-3-200806

Lab Sample ID: 600-209485-2

Date Collected: 08/06/20 11:30

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 95.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.80	U	10.8	1.80	ug/Kg	☆	08/08/20 10:45	08/08/20 13:16	1
Vinyl chloride	0.976	U	10.8	0.976	ug/Kg	☆	08/08/20 10:45	08/08/20 13:16	1
Bromomethane	0.900	U *	10.8	0.900	ug/Kg	☆	08/08/20 10:45	08/08/20 13:16	1
Trichlorofluoromethane	0.716	U	10.8	0.716	ug/Kg	☆	08/08/20 10:45	08/08/20 13:16	1
Acrolein	6.76	U	27.1	6.76	ug/Kg	☆	08/08/20 10:45	08/08/20 13:16	1
1,1-Dichloroethene	1.32	U	5.42	1.32	ug/Kg	☆	08/08/20 10:45	08/08/20 13:16	1
trans-1,2-Dichloroethene	1.24	U	5.42	1.24	ug/Kg	☆	08/08/20 10:45	08/08/20 13:16	1
Methyl tert-butyl ether	1.98	U	5.42	1.98	ug/Kg	☆	08/08/20 10:45	08/08/20 13:16	1
Methylene Chloride	2.37	U	10.8	2.37	ug/Kg	☆	08/08/20 10:45	08/08/20 13:16	1
Acrylonitrile	6.31	U	54.2	6.31	ug/Kg	☆	08/08/20 10:45	08/08/20 13:16	1

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Client Sample Results

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

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE152-S-2-3-200806

Lab Sample ID: 600-209485-2

Date Collected: 08/06/20 11:30

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 95.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.900	U	5.42	0.900	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
Carbon tetrachloride	1.23	U	5.42	1.23	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
Benzene	0.683	U	5.42	0.683	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
1,2-Dichloroethane	0.976	U	5.42	0.976	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
Trichloroethene	1.52	U	5.42	1.52	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
1,1,1-Trichloroethane	0.802	U	5.42	0.802	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
1,1-Dichloroethane	0.943	U	5.42	0.943	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
1,2-Dichloropropane	0.770	U	5.42	0.770	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
1,4-Dioxane	67.3	U	5.42	67.3	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
Chloroform	0.998	J b	10.8	0.716	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
Bromodichloromethane	0.716	U	5.42	0.716	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
1,1-Dichloropropene	0.705	U	5.42	0.705	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
cis-1,3-Dichloropropene	0.586	U	5.42	0.586	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
Toluene	1.50	U	5.42	1.50	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
trans-1,3-Dichloropropene	0.629	U	5.42	0.629	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
1,1,2-Trichloroethane	0.792	U	5.42	0.792	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
Tetrachloroethene	0.770	U	5.42	0.770	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
1,3-Dichloropropene, Total	0.629	U	5.42	0.629	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
1,2-Dibromoethane	1.11	U	5.42	1.11	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
Monochlorobenzene	1.04	U	5.42	1.04	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
Ethylbenzene	1.11	U	5.42	1.11	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
Xylenes, Total	1.23	U	5.42	1.23	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
Styrene	0.770	U	5.42	0.770	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
Tribromomethane	1.49	U	5.42	1.49	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
1,1,2,2-Tetrachloroethane	0.943	U	5.42	0.943	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
1,4-Dichlorobenzene	0.716	U	5.42	0.716	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
1,2-Dichlorobenzene	0.868	U	5.42	0.868	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
1,2,4-Trichlorobenzene	2.14	U	5.42	2.14	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
Dichlorodifluoromethane	1.67	U	5.42	1.67	ug/Kg	✱	08/08/20 10:45	08/08/20 13:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		61 - 130				08/08/20 10:45	08/08/20 13:16	1
Dibromofluoromethane	85		68 - 140				08/08/20 10:45	08/08/20 13:16	1
Toluene-d8 (Surr)	96		50 - 130				08/08/20 10:45	08/08/20 13:16	1
4-Bromofluorobenzene	106		57 - 140				08/08/20 10:45	08/08/20 13:16	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.38	U	34.8	4.38	ug/Kg	✱	08/12/20 11:16	08/17/20 12:25	1
N-Nitrosodiethylamine	7.51	U *	34.8	7.51	ug/Kg	✱	08/12/20 11:16	08/17/20 12:25	1
Bis(2-chloroethyl)ether	1.73	U	34.8	1.73	ug/Kg	✱	08/12/20 11:16	08/17/20 12:25	1
Hexachloroethane	2.42	U	34.8	2.42	ug/Kg	✱	08/12/20 11:16	08/17/20 12:25	1
N-Nitrosopyrrolidine	4.89	U *	34.8	4.89	ug/Kg	✱	08/12/20 11:16	08/17/20 12:25	1
Nitrobenzene	3.10	U	34.8	3.10	ug/Kg	✱	08/12/20 11:16	08/17/20 12:25	1
Isophorone	1.05	U	34.8	1.05	ug/Kg	✱	08/12/20 11:16	08/17/20 12:25	1
2,4-Dichlorophenol	4.05	U	34.8	4.05	ug/Kg	✱	08/12/20 11:16	08/17/20 12:25	1
Naphthalene	1.41	U	34.8	1.41	ug/Kg	✱	08/12/20 11:16	08/17/20 12:25	1
Hexachlorobutadiene	2.01	U	34.8	2.01	ug/Kg	✱	08/12/20 11:16	08/17/20 12:25	1
N-Nitrosodi-n-butylamine	17.4	U *	34.8	17.4	ug/Kg	✱	08/12/20 11:16	08/17/20 12:25	1
2-Methylnaphthalene	3.66	J	34.8	2.87	ug/Kg	✱	08/12/20 11:16	08/17/20 12:25	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE152-S-2-3-200806

Lab Sample ID: 600-209485-2

Date Collected: 08/06/20 11:30

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 95.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	1.64	U	34.8	1.64	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
1,2,4,5-Tetrachlorobenzene	7.06	U	34.8	7.06	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Hexachlorocyclopentadiene	4.82	U	34.8	4.82	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
2,4,6-Trichlorophenol	2.80	U	34.8	2.80	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
2,4,5-Trichlorophenol	10.5	U	34.8	10.5	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Dimethyl phthalate	5.12	U	69.8	5.12	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Acenaphthylene	1.05	U	34.8	1.05	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
2,6-Dinitrotoluene	3.09	U	34.8	3.09	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Acenaphthene	1.51	U	34.8	1.51	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Dinitrophenols	4.94	U	105	4.94	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Pentachlorobenzene	4.19	U *	34.8	4.19	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
2,4-Dinitrotoluene	3.78	U	34.8	3.78	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Diethyl phthalate	8.82	U	69.8	8.82	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Fluorene	2.47	U	34.8	2.47	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Dinitro-o-cresol	5.21	U	178	5.21	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
N-Nitrosodiphenylamine	1.98	U	34.8	1.98	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Diphenylhydrazine, 1,2-	1.69	U	34.8	1.69	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Hexachlorobenzene	1.59	U	34.8	1.59	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Atrazine	5.25	U	34.8	5.25	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Pentachlorophenol	4.18	U	175	4.18	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Phenanthrene	5.18	U	34.8	5.18	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Anthracene	1.34	U	34.8	1.34	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Dibutylphthalate	2.71	U	69.8	2.71	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Fluoranthene	3.25	U	34.8	3.25	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Benzidine	9.44	U	345	9.44	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Pyrene	1.91	U	34.8	1.91	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Dichlorobenzidine, 3,3'-	10.6	U	34.8	10.6	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Benzo[a]anthracene	1.44	U	34.8	1.44	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Di (2-ethylhexyl)phthalate	5.62	U	34.8	5.62	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Chrysene	1.07	U	34.8	1.07	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Benzo[b]fluoranthene	1.80	U	34.8	1.80	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Benzo[k]fluoranthene	1.56	U	34.8	1.56	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Benzo[a]pyrene	1.68	U	34.8	1.68	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Indeno[1,2,3-cd]pyrene	3.66	U	34.8	3.66	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Dibenz(a,h)anthracene	3.80	U	34.8	3.80	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Benzo[g,h,i]perylene	5.30	U	34.8	5.30	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
bis (2-chloroisopropyl) ether	9.25	U	34.8	9.25	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1
Thiophene, tetrahydro-, 1,1-dioxide	17.4	U	34.8	17.4	ug/Kg	☆	08/12/20 11:16	08/17/20 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	50		10 - 148	08/12/20 11:16	08/17/20 12:25	1
2-Fluorobiphenyl	83		38 - 130	08/12/20 11:16	08/17/20 12:25	1
2-Fluorophenol	81		25 - 132	08/12/20 11:16	08/17/20 12:25	1
Nitrobenzene-d5	81		10 - 155	08/12/20 11:16	08/17/20 12:25	1
Terphenyl-d14	102		53 - 134	08/12/20 11:16	08/17/20 12:25	1
Phenol-d5 (Surr)	80		27 - 130	08/12/20 11:16	08/17/20 12:25	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.2	U	67.3	12.2	ug/Kg	☆	08/17/20 09:48	08/18/20 20:15	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE152-S-2-3-200806

Lab Sample ID: 600-209485-2

Date Collected: 08/06/20 11:30

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 95.5

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	70		30 - 164				08/17/20 09:48	08/18/20 20:15	1
Method: 8015B - Gasoline Range Organics - (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.640	U	1.09	0.640	mg/Kg	☼	08/08/20 07:14	08/08/20 11:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		70 - 130				08/08/20 07:14	08/08/20 11:52	1
Method: 8015B - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.68	U	7.83	2.68	mg/Kg	☼	08/10/20 15:56	08/13/20 15:50	1
C28-C36	32.1		7.83	7.83	mg/Kg	☼	08/10/20 15:56	08/13/20 15:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	123		60 - 140				08/10/20 15:56	08/13/20 15:50	1
Method: 8081A - Organochlorine Pesticides (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.37	U	1.78	1.37	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Hexachlorocyclohexane, beta-	1.07	U	1.78	1.07	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Hexachlorocyclohexane, delta-	0.889	U	1.78	0.889	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Hexachlorocyclohexane, alpha-	1.05	U	1.78	1.05	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Hexachlorocyclohexane, gamma-	0.972	U	1.78	0.972	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Chlordane (technical)	24.5	U	78.4	24.5	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
DDT	1.93	U	3.45	1.93	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Dieldrin	1.45	U	3.45	1.45	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Endosulfan I	1.05	U	1.78	1.05	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Endosulfan II	1.58	U	3.45	1.58	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Endosulfan sulfate	1.76	U	3.45	1.76	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Endrin	1.60	U	3.45	1.60	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Endrin aldehyde	1.63	U	3.45	1.63	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Heptachlor	0.972	U	1.78	0.972	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Heptachlor epoxide	1.22	U	1.78	1.22	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Toxaphene	76.4	U	178	76.4	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	102		47 - 150				08/11/20 08:51	08/11/20 22:30	1
Tetrachloro-m-xylene	101		50 - 143				08/11/20 08:51	08/11/20 22:30	1
Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00167	U	0.0175	0.00167	mg/Kg	☼	08/11/20 08:51	08/12/20 16:06	1
PCB-1221	0.00902	U	0.0175	0.00902	mg/Kg	☼	08/11/20 08:51	08/12/20 16:06	1
PCB-1232	0.00700	U	0.0175	0.00700	mg/Kg	☼	08/11/20 08:51	08/12/20 16:06	1
PCB-1242	0.00130	U	0.0175	0.00130	mg/Kg	☼	08/11/20 08:51	08/12/20 16:06	1
PCB-1248	0.00260	U	0.0175	0.00260	mg/Kg	☼	08/11/20 08:51	08/12/20 16:06	1
PCB-1254	0.00231	U	0.0175	0.00231	mg/Kg	☼	08/11/20 08:51	08/12/20 16:06	1
PCB-1260	0.0141	U	0.0175	0.0141	mg/Kg	☼	08/11/20 08:51	08/12/20 16:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		10 - 150				08/11/20 08:51	08/12/20 16:06	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE152-S-2-3-200806

Lab Sample ID: 600-209485-2

Date Collected: 08/06/20 11:30

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 95.5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	127		10 - 150	08/11/20 08:51	08/12/20 16:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.39	J	4.19	0.559	mg/Kg	✱		08/11/20 19:27	1
Nitrate as N	5.53		2.10	0.263	mg/Kg	✱		08/11/20 19:27	1
Fluoride	4.11		2.10	0.630	mg/Kg	✱		08/11/20 19:27	1
Nitrite as N	0.311	U	2.10	0.311	mg/Kg	✱		08/11/20 19:27	1
Sulfate	19.4		5.24	1.00	mg/Kg	✱		08/11/20 19:27	1

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0227	U	0.0998	0.0227	mg/Kg		08/12/20 15:04	08/13/20 18:59	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.200	0.0429	mg/Kg		08/12/20 15:04	08/13/20 18:59	1
2,4,6-Trinitrotoluene	0.0306	U	0.0998	0.0306	mg/Kg		08/12/20 15:04	08/13/20 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	103		83 - 122				08/12/20 15:04	08/13/20 18:59	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0838	U	0.509	0.0838	ug/Kg	✱	08/12/20 11:00	08/20/20 15:02	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	☼	08/17/20 14:49	08/24/20 12:56	1
Perfluorohexanesulfonic acid (PFHxS)	0.276	U	0.787	0.276	ug/Kg	☼	08/17/20 14:49	08/24/20 12:56	1
Perfluorooctanesulfonic acid (PFOS)	0.138	U	0.787	0.138	ug/Kg	☼	08/17/20 14:49	08/24/20 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	101		57 - 153				08/17/20 14:49	08/24/20 12:56	1
13C8 PFOS	99		70 - 130				08/17/20 14:49	08/24/20 12:56	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.665	U	1.77	0.665	mg/Kg	✱	08/13/20 11:03	08/14/20 19:46	20
Arsenic	3.55	U	8.86	3.55	mg/Kg	✱	08/13/20 11:03	08/14/20 19:46	20
Barium	31.9		17.7	4.43	mg/Kg	✱	08/13/20 11:03	08/14/20 19:46	20
Beryllium	0.355	U	0.886	0.355	mg/Kg	✱	08/13/20 11:03	08/14/20 19:46	20
Cadmium	0.213	U	0.443	0.213	mg/Kg	✱	08/13/20 11:03	08/14/20 19:46	20
Chromium	5.24	J	8.86	3.99	mg/Kg	✱	08/13/20 11:03	08/14/20 19:46	20
Iron	5280		106	53.2	mg/Kg	✱	08/13/20 11:03	08/14/20 19:46	20
Copper	3.55	U	8.86	3.55	mg/Kg	✱	08/13/20 11:03	08/14/20 19:46	20
Manganese	110		4.43	1.77	mg/Kg	✱	08/13/20 11:03	08/14/20 19:46	20
Lead	5.54	U	13.3	5.54	mg/Kg	✱	08/13/20 11:03	08/21/20 17:58	100
Antimony	1.77	U	4.43	1.77	mg/Kg	✱	08/13/20 11:03	08/14/20 19:46	20
Selenium	2.84	U	4.43	2.84	mg/Kg	✱	08/13/20 11:03	08/14/20 19:46	20
Thallium	8.86	U	22.2	8.86	mg/Kg	✱	08/13/20 11:03	08/21/20 17:58	100
Zinc	17.7	U	44.3	17.7	mg/Kg	✱	08/13/20 11:03	08/14/20 19:46	20
Uranium	1.77	U	4.43	1.77	mg/Kg	✱	08/13/20 11:03	08/21/20 17:58	100

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE152-S-2-3-200806

Lab Sample ID: 600-209485-2

Date Collected: 08/06/20 11:30

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 95.5

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00346	U	0.0164	0.00346	mg/Kg	☆	09/02/20 13:16	09/03/20 13:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.5		1.0	1.0	%			08/11/20 08:50	1
Percent Solids	95.5		1.0	1.0	%			08/11/20 08:50	1
Cyanide, Total	0.0377	J	0.119	0.0178	mg/Kg	☆	08/19/20 16:06	08/19/20 22:17	1
pH	8.6	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.433	U	0.517	0.433	mg/Kg	☆	08/19/20 16:29	08/19/20 20:38	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	162		10.0	10.0	mg/L			08/17/20 11:57	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	0.520		0.112	0.124	1.00	0.0630	pCi/g	08/20/20 11:43	09/12/20 10:36	1
Radium-228	0.286		0.160	0.163		0.280	pCi/g	08/20/20 11:43	09/12/20 10:36	1
Combined Radium 226 + 228	0.807		0.195	0.205		0.280	pCi/g	08/20/20 11:43	09/12/20 10:36	1

Client Sample ID: CELL17-SQUARE92-S-2-3-200806

Lab Sample ID: 600-209485-3

Date Collected: 08/06/20 12:27

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 89.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.97	U	11.9	1.97	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
Vinyl chloride	1.07	U	11.9	1.07	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
Bromomethane	0.986	U *	11.9	0.986	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
Trichlorofluoromethane	0.784	U	11.9	0.784	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
Acrolein	7.40	U	29.7	7.40	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
1,1-Dichloroethene	1.45	U	5.94	1.45	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
trans-1,2-Dichloroethene	1.35	U	5.94	1.35	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
Methyl tert-butyl ether	2.17	U	5.94	2.17	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
Methylene Chloride	2.60	U	11.9	2.60	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
Acrylonitrile	6.91	U	59.4	6.91	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
cis-1,2-Dichloroethene	0.986	U	5.94	0.986	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
Carbon tetrachloride	1.34	U	5.94	1.34	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
Benzene	0.748	U	5.94	0.748	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
1,2-Dichloroethane	1.07	U	5.94	1.07	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
Trichloroethene	1.66	U	5.94	1.66	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
1,1,1-Trichloroethane	0.879	U	5.94	0.879	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
1,1-Dichloroethane	1.03	U	5.94	1.03	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
1,2-Dichloropropane	0.843	U	5.94	0.843	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
1,4-Dioxane	73.7	U	594	73.7	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
Chloroform	1.05	J b	11.9	0.784	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
Bromodichloromethane	0.784	U	5.94	0.784	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1
1,1-Dichloropropene	0.772	U	5.94	0.772	ug/Kg	☆	08/08/20 10:45	08/08/20 13:40	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE92-S-2-3-200806

Lab Sample ID: 600-209485-3

Date Collected: 08/06/20 12:27

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.641	U	5.94	0.641	ug/Kg	✱	08/08/20 10:45	08/08/20 13:40	1
Toluene	1.64	U	5.94	1.64	ug/Kg	✱	08/08/20 10:45	08/08/20 13:40	1
trans-1,3-Dichloropropene	0.689	U	5.94	0.689	ug/Kg	✱	08/08/20 10:45	08/08/20 13:40	1
1,1,2-Trichloroethane	0.867	U	5.94	0.867	ug/Kg	✱	08/08/20 10:45	08/08/20 13:40	1
Tetrachloroethene	0.843	U	5.94	0.843	ug/Kg	✱	08/08/20 10:45	08/08/20 13:40	1
1,3-Dichloropropene, Total	0.689	U	5.94	0.689	ug/Kg	✱	08/08/20 10:45	08/08/20 13:40	1
1,2-Dibromoethane	1.21	U	5.94	1.21	ug/Kg	✱	08/08/20 10:45	08/08/20 13:40	1
Monochlorobenzene	1.14	U	5.94	1.14	ug/Kg	✱	08/08/20 10:45	08/08/20 13:40	1
Ethylbenzene	1.21	U	5.94	1.21	ug/Kg	✱	08/08/20 10:45	08/08/20 13:40	1
Xylenes, Total	1.34	U	5.94	1.34	ug/Kg	✱	08/08/20 10:45	08/08/20 13:40	1
Styrene	0.843	U	5.94	0.843	ug/Kg	✱	08/08/20 10:45	08/08/20 13:40	1
Tribromomethane	1.63	U	5.94	1.63	ug/Kg	✱	08/08/20 10:45	08/08/20 13:40	1
1,1,2,2-Tetrachloroethane	1.03	U	5.94	1.03	ug/Kg	✱	08/08/20 10:45	08/08/20 13:40	1
1,4-Dichlorobenzene	0.784	U	5.94	0.784	ug/Kg	✱	08/08/20 10:45	08/08/20 13:40	1
1,2-Dichlorobenzene	0.950	U	5.94	0.950	ug/Kg	✱	08/08/20 10:45	08/08/20 13:40	1
1,2,4-Trichlorobenzene	2.34	U	5.94	2.34	ug/Kg	✱	08/08/20 10:45	08/08/20 13:40	1
Dichlorodifluoromethane	1.83	U	5.94	1.83	ug/Kg	✱	08/08/20 10:45	08/08/20 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		61 - 130	08/08/20 10:45	08/08/20 13:40	1
Dibromofluoromethane	82		68 - 140	08/08/20 10:45	08/08/20 13:40	1
Toluene-d8 (Surr)	95		50 - 130	08/08/20 10:45	08/08/20 13:40	1
4-Bromofluorobenzene	104		57 - 140	08/08/20 10:45	08/08/20 13:40	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.67	U	37.1	4.67	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
N-Nitrosodiethylamine	8.00	U	37.1	8.00	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
Bis(2-chloroethyl)ether	1.84	U	37.1	1.84	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
Hexachloroethane	2.57	U	37.1	2.57	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
N-Nitrosopyrrolidine	5.21	U	37.1	5.21	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
Nitrobenzene	3.30	U	37.1	3.30	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
Isophorone	1.11	U	37.1	1.11	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
2,4-Dichlorophenol	4.31	U	37.1	4.31	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
Naphthalene	1.50	U	37.1	1.50	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
Hexachlorobutadiene	2.14	U	37.1	2.14	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
N-Nitrosodi-n-butylamine	18.6	U	37.1	18.6	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
2-Methylnaphthalene	3.05	U	37.1	3.05	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
1-Methylnaphthalene	1.75	U	37.1	1.75	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
1,2,4,5-Tetrachlorobenzene	7.52	U	37.1	7.52	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
Hexachlorocyclopentadiene	5.14	U	37.1	5.14	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
2,4,6-Trichlorophenol	2.99	U	37.1	2.99	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
2,4,5-Trichlorophenol	11.2	U	37.1	11.2	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
Dimethyl phthalate	5.45	U	74.3	5.45	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
Acenaphthylene	1.11	U	37.1	1.11	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
2,6-Dinitrotoluene	3.29	U	37.1	3.29	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
Acenaphthene	1.61	U	37.1	1.61	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
Dinitrophenols	5.26	U	111	5.26	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
Pentachlorobenzene	4.47	U	37.1	4.47	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1
2,4-Dinitrotoluene	4.02	U	37.1	4.02	ug/Kg	✱	08/12/20 11:16	08/17/20 12:49	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE92-S-2-3-200806

Lab Sample ID: 600-209485-3

Date Collected: 08/06/20 12:27

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 89.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	9.40	U	74.3	9.40	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Fluorene	2.63	U	37.1	2.63	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Dinitro-o-cresol	5.55	U	189	5.55	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
N-Nitrosodiphenylamine	2.11	U	37.1	2.11	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Diphenylhydrazine, 1,2-	1.81	U	37.1	1.81	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Hexachlorobenzene	1.69	U	37.1	1.69	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Atrazine	5.60	U	37.1	5.60	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Pentachlorophenol	4.46	U	186	4.46	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Phenanthrene	5.52	U	37.1	5.52	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Anthracene	1.43	U	37.1	1.43	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Dibutylphthalate	2.89	U	74.3	2.89	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Fluoranthene	3.47	U	37.1	3.47	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Benzidine	10.1	U	368	10.1	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Pyrene	2.04	U	37.1	2.04	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Dichlorobenzidine, 3,3'-	11.3	U	37.1	11.3	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Benzo[a]anthracene	1.54	U	37.1	1.54	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Di (2-ethylhexyl)phthalate	18.2	J	37.1	5.99	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Chrysene	1.14	U	37.1	1.14	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Benzo[b]fluoranthene	1.92	U	37.1	1.92	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Benzo[k]fluoranthene	1.66	U	37.1	1.66	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Benzo[a]pyrene	1.79	U	37.1	1.79	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Indeno[1,2,3-cd]pyrene	3.90	U	37.1	3.90	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Dibenz(a,h)anthracene	4.05	U	37.1	4.05	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Benzo[g,h,i]perylene	5.65	U	37.1	5.65	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
bis (2-chloroisopropyl) ether	9.85	U	37.1	9.85	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1
Thiophene, tetrahydro-, 1,1-dioxide	18.6	U	37.1	18.6	ug/Kg	☆	08/12/20 11:16	08/17/20 12:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		10 - 148	08/12/20 11:16	08/17/20 12:49	1
2-Fluorobiphenyl	74		38 - 130	08/12/20 11:16	08/17/20 12:49	1
2-Fluorophenol	64		25 - 132	08/12/20 11:16	08/17/20 12:49	1
Nitrobenzene-d5	69		10 - 155	08/12/20 11:16	08/17/20 12:49	1
Terphenyl-d14	105		53 - 134	08/12/20 11:16	08/17/20 12:49	1
Phenol-d5 (Surr)	57		27 - 130	08/12/20 11:16	08/17/20 12:49	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.4	U	74.0	13.4	ug/Kg	☆	08/17/20 09:48	08/18/20 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	41		30 - 164	08/17/20 09:48	08/18/20 20:40	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.684	U	1.17	0.684	mg/Kg	☆	08/08/20 07:14	08/08/20 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	99		70 - 130	08/08/20 07:14	08/08/20 12:16	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE92-S-2-3-200806

Lab Sample ID: 600-209485-3

Date Collected: 08/06/20 12:27

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.62	J	8.36	2.86	mg/Kg	☆	08/10/20 15:56	08/13/20 16:23	1
C28-C36	28.7		8.36	8.36	mg/Kg	☆	08/10/20 15:56	08/13/20 16:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	89		60 - 140				08/10/20 15:56	08/13/20 16:23	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.47	U	1.90	1.47	ug/Kg	☆	08/11/20 08:51	08/11/20 22:54	1
Hexachlorocyclohexane, beta-	1.14	U	1.90	1.14	ug/Kg	☆	08/11/20 08:51	08/11/20 22:54	1
Hexachlorocyclohexane, delta-	0.952	U	1.90	0.952	ug/Kg	☆	08/11/20 08:51	08/11/20 22:54	1
Hexachlorocyclohexane, alpha-	1.12	U	1.90	1.12	ug/Kg	☆	08/11/20 08:51	08/11/20 22:54	1
Hexachlorocyclohexane, gamma-	1.04	U	1.90	1.04	ug/Kg	☆	08/11/20 08:51	08/11/20 22:54	1
Chlordane (technical)	26.2	U	84.0	26.2	ug/Kg	☆	08/11/20 08:51	08/11/20 22:54	1
DDT	2.07	U	3.70	2.07	ug/Kg	☆	08/11/20 08:51	08/11/20 22:54	1
Dieldrin	1.56	U	3.70	1.56	ug/Kg	☆	08/11/20 08:51	08/11/20 22:54	1
Endosulfan I	1.12	U	1.90	1.12	ug/Kg	☆	08/11/20 08:51	08/11/20 22:54	1
Endosulfan II	1.69	U	3.70	1.69	ug/Kg	☆	08/11/20 08:51	08/11/20 22:54	1
Endosulfan sulfate	1.88	U	3.70	1.88	ug/Kg	☆	08/11/20 08:51	08/11/20 22:54	1
Endrin	1.71	U	3.70	1.71	ug/Kg	☆	08/11/20 08:51	08/11/20 22:54	1
Endrin aldehyde	1.75	U	3.70	1.75	ug/Kg	☆	08/11/20 08:51	08/11/20 22:54	1
Heptachlor	1.04	U	1.90	1.04	ug/Kg	☆	08/11/20 08:51	08/11/20 22:54	1
Heptachlor epoxide	1.31	U	1.90	1.31	ug/Kg	☆	08/11/20 08:51	08/11/20 22:54	1
Toxaphene	81.9	U	190	81.9	ug/Kg	☆	08/11/20 08:51	08/11/20 22:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	76		47 - 150				08/11/20 08:51	08/11/20 22:54	1
Tetrachloro-m-xylene	71		50 - 143				08/11/20 08:51	08/11/20 22:54	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00179	U	0.0187	0.00179	mg/Kg	☆	08/11/20 08:51	08/12/20 16:31	1
PCB-1221	0.00966	U	0.0187	0.00966	mg/Kg	☆	08/11/20 08:51	08/12/20 16:31	1
PCB-1232	0.00750	U	0.0187	0.00750	mg/Kg	☆	08/11/20 08:51	08/12/20 16:31	1
PCB-1242	0.00139	U	0.0187	0.00139	mg/Kg	☆	08/11/20 08:51	08/12/20 16:31	1
PCB-1248	0.00279	U	0.0187	0.00279	mg/Kg	☆	08/11/20 08:51	08/12/20 16:31	1
PCB-1254	0.00247	U	0.0187	0.00247	mg/Kg	☆	08/11/20 08:51	08/12/20 16:31	1
PCB-1260	0.0151	U	0.0187	0.0151	mg/Kg	☆	08/11/20 08:51	08/12/20 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		10 - 150				08/11/20 08:51	08/12/20 16:31	1
DCB Decachlorobiphenyl	103		10 - 150				08/11/20 08:51	08/12/20 16:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.28	J	4.49	0.599	mg/Kg	☆		08/11/20 19:48	1
Nitrate as N	6.96		2.24	0.281	mg/Kg	☆		08/11/20 19:48	1
Fluoride	4.28		2.24	0.674	mg/Kg	☆		08/11/20 19:48	1
Nitrite as N	0.333	U	2.24	0.333	mg/Kg	☆		08/11/20 19:48	1
Sulfate	35.3		5.61	1.07	mg/Kg	☆		08/11/20 19:48	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE92-S-2-3-200806

Lab Sample ID: 600-209485-3

Date Collected: 08/06/20 12:27

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 89.2

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0209	U	0.0920	0.0209	mg/Kg		08/12/20 15:04	08/13/20 20:08	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0396	U	0.184	0.0396	mg/Kg		08/12/20 15:04	08/13/20 20:08	1
2,4,6-Trinitrotoluene	0.0282	U	0.0920	0.0282	mg/Kg		08/12/20 15:04	08/13/20 20:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	102		83 - 122				08/12/20 15:04	08/13/20 20:08	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.111	J	0.525	0.0866	ug/Kg	✱	08/12/20 11:00	08/20/20 15:07	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.249	U	0.866	0.249	ug/Kg	✱	08/17/20 14:49	08/24/20 13:05	1
Perfluorohexanesulfonic acid (PFHxS)	0.303	U	0.866	0.303	ug/Kg	✱	08/17/20 14:49	08/24/20 13:05	1
Perfluorooctanesulfonic acid (PFOS)	0.152	U	0.866	0.152	ug/Kg	✱	08/17/20 14:49	08/24/20 13:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	102		57 - 153				08/17/20 14:49	08/24/20 13:05	1
13C8 PFOS	94		70 - 130				08/17/20 14:49	08/24/20 13:05	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.827	U	2.20	0.827	mg/Kg	✱	08/13/20 11:03	08/14/20 19:55	20
Arsenic	4.41	U	11.0	4.41	mg/Kg	✱	08/13/20 11:03	08/14/20 19:55	20
Barium	425		22.0	5.51	mg/Kg	✱	08/13/20 11:03	08/14/20 19:55	20
Beryllium	0.441	U	1.10	0.441	mg/Kg	✱	08/13/20 11:03	08/14/20 19:55	20
Cadmium	0.265	U	0.551	0.265	mg/Kg	✱	08/13/20 11:03	08/14/20 19:55	20
Chromium	4.96	U	11.0	4.96	mg/Kg	✱	08/13/20 11:03	08/14/20 19:55	20
Iron	1820		132	66.1	mg/Kg	✱	08/13/20 11:03	08/14/20 19:55	20
Copper	4.41	U	11.0	4.41	mg/Kg	✱	08/13/20 11:03	08/14/20 19:55	20
Manganese	24.2		5.51	2.20	mg/Kg	✱	08/13/20 11:03	08/14/20 19:55	20
Lead	1.38	U	3.31	1.38	mg/Kg	✱	08/13/20 11:03	08/14/20 19:55	20
Antimony	2.20	U	5.51	2.20	mg/Kg	✱	08/13/20 11:03	08/14/20 19:55	20
Selenium	3.53	U	5.51	3.53	mg/Kg	✱	08/13/20 11:03	08/14/20 19:55	20
Thallium	2.20	U	5.51	2.20	mg/Kg	✱	08/13/20 11:03	08/14/20 19:55	20
Zinc	22.0	U	55.1	22.0	mg/Kg	✱	08/13/20 11:03	08/14/20 19:55	20
Uranium	0.441	U	1.10	0.441	mg/Kg	✱	08/13/20 11:03	08/21/20 18:00	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00401	U	0.0191	0.00401	mg/Kg	✱	09/02/20 13:16	09/03/20 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.8		1.0	1.0	%			08/11/20 08:50	1
Percent Solids	89.2		1.0	1.0	%			08/11/20 08:50	1
Cyanide, Total	0.0194	U	0.129	0.0194	mg/Kg	✱	08/19/20 16:06	08/19/20 22:18	1
pH	8.9	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.467	U	0.557	0.467	mg/Kg	✱	08/19/20 16:29	08/19/20 20:43	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE92-S-2-3-200806

Lab Sample ID: 600-209485-3

Date Collected: 08/06/20 12:27

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 89.2

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	137		10.0	10.0	mg/L			08/17/20 11:57	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	0.857		0.190	0.209	1.00	0.133	pCi/g	08/20/20 11:43	09/12/20 10:31	1
Radium-228	0.169	U	0.308	0.308		0.375	pCi/g	08/20/20 11:43	09/12/20 10:31	1
Combined Radium 226 + 228	1.03		0.362	0.372		0.375	pCi/g	08/20/20 11:43	09/12/20 10:31	1

Eurofins TestAmerica, Houston

Definitions/Glossary

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

Job ID: 600-209485-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
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/MS 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.

GC 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.
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.

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.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
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
b	The compound was found in the blank and sample
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.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
N2	RPD of the MS and MSD exceeds the control limits
U	Analyte was not detected at or above the SDL.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)

Eurofins TestAmerica, Houston

Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 600-209485-1

Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

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

Surrogate Summary

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

Job ID: 600-209485-1

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 (61-130)	DBFM (68-140)	TOL (50-130)	BFB (57-140)
600-209485-1	CELL17-SQUARE197-S-2-3-20(	82	82	94	102
600-209485-2	CELL17-SQUARE152-S-2-3-20 0806	88	85	96	106
600-209485-3	CELL17-SQUARE92-S-2-3-200 806	85	82	95	104
LCS 600-300707/3	Lab Control Sample	90	88	95	110
LCSD 600-300707/4	Lab Control Sample Dup	89	88	91	107
MB 600-300707/6	Method Blank	108	87	92	113

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

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (10-148)	FBP (38-130)	2FP (25-132)	NBZ (10-155)	TPHL (53-134)	PHL (27-130)
600-209485-1	CELL17-SQUARE197-S-2-3-20(	57	86	77	82	101	74
600-209485-2	CELL17-SQUARE152-S-2-3-20 0806	50	83	81	81	102	80
600-209485-3	CELL17-SQUARE92-S-2-3-200 806	63	74	64	69	105	57
LCS 600-300979/24-A	Lab Control Sample	99	95	87	91	116	89
LCS 600-300979/25-A	Lab Control Sample	56	85	73	84	109	79
LCS 600-300979/2-A	Lab Control Sample	100	98	91	95	112	93
MB 600-300979/1-A	Method Blank	76	90	84	89	113	84

Surrogate Legend
TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14
PHL = Phenol-d5 (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)	
600-209485-1	CELL17-SQUARE197-S-2-3-20(	32	
600-209485-2	CELL17-SQUARE152-S-2-3-20 0806	70	
600-209485-3	CELL17-SQUARE92-S-2-3-200 806	41	
LCS 400-500496/2-A	Lab Control Sample	94	
MB 400-500496/1-A	Method Blank	86	

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Surrogate Summary

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

Job ID: 600-209485-1

Surrogate Legend

TPP = Triphenylphosphate

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFT1 (70-130)
600-209485-1	CELL17-SQUARE197-S-2-3-200	88
600-209485-2	CELL17-SQUARE152-S-2-3-200806	94
600-209485-3	CELL17-SQUARE92-S-2-3-200806	99
LCS 600-300708/1-A	Lab Control Sample	96
LCSD 600-300708/2-A	Lab Control Sample Dup	96
MB 600-300708/3-A	Method Blank	95

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH1 (60-140)
600-209485-1	CELL17-SQUARE197-S-2-3-200	72
600-209485-2	CELL17-SQUARE152-S-2-3-200806	123
600-209485-3	CELL17-SQUARE92-S-2-3-200806	89
LCS 600-300806/2-A	Lab Control Sample	131
LCSD 600-300806/3-A	Lab Control Sample Dup	131
MB 600-300806/1-A	Method Blank	125

Surrogate Legend

OTPH = o-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP1 (47-150)	TCX1 (50-143)
600-209485-1	CELL17-SQUARE197-S-2-3-200	69	70
600-209485-2	CELL17-SQUARE152-S-2-3-200806	102	101
600-209485-3	CELL17-SQUARE92-S-2-3-200806	76	71
LCS 600-300862/2-A	Lab Control Sample	76	74
LCSD 600-300862/3-A	Lab Control Sample Dup	104	89
MB 600-300862/1-A	Method Blank	127	116

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

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Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209485-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (10-150)	DCBP1 (10-150)
600-209485-1	CELL17-SQUARE197-S-2-3-20(	75	101
600-209485-2	CELL17-SQUARE152-S-2-3-20 0806	94	127
600-209485-3	CELL17-SQUARE92-S-2-3-200 806	76	103
LCS 600-300862/4-A	Lab Control Sample	85	104
LCSD 600-300862/5-A	Lab Control Sample Dup	78	101
MB 600-300862/1-A	Method Blank	117	165 X
Surrogate Legend			
TCX = Tetrachloro-m-xylene			
DCBP = DCB Decachlorobiphenyl			

Method: 8330B - Nitroaromatics and Nitramines (HPLC)**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		12DNB1 (83-122)	
600-209485-1	CELL17-SQUARE197-S-2-3-20(	99	
600-209485-1 MS	CELL17-SQUARE197-S-2-3-20 0806	102	
600-209485-1 MSD	CELL17-SQUARE197-S-2-3-20 0806	103	
600-209485-2	CELL17-SQUARE152-S-2-3-20 0806	103	
600-209485-2 DU	CELL17-SQUARE152-S-2-3-20 0806	102	
600-209485-2 TRL	CELL17-SQUARE152-S-2-3-20 0806	102	
600-209485-3	CELL17-SQUARE92-S-2-3-200 806	102	
LCS 280-505436/2-A	Lab Control Sample	106	
MB 280-505436/1-A	Method Blank	102	
Surrogate Legend			
12DNB = 1,2-Dinitrobenzene			

Method: DV-LC-0012 - Fluorinated Alkyl Substances**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		C8PFOA (57-153)	C8PFOS (70-130)
600-209485-1	CELL17-SQUARE197-S-2-3-20(	102	96
600-209485-2	CELL17-SQUARE152-S-2-3-20 0806	101	99
600-209485-3	CELL17-SQUARE92-S-2-3-200 806	102	94
DLCK 280-500633/14	Lab Control Sample	108	91
LCS 280-505864/2-A	Lab Control Sample	101	98
MB 280-505864/1-A	Method Blank	104	94
Surrogate Legend			
C8PFOA = 13C8 PFOA			

Eurofins TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils
C8PFOS = 13C8 PFOS

Job ID: 600-209485-1

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QC Sample Results

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

Job ID: 600-209485-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-300707/6

Matrix: Solid

Analysis Batch: 300707

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.66	U	10.0	1.66	ug/Kg			08/08/20 09:03	1
Vinyl chloride	0.900	U	10.0	0.900	ug/Kg			08/08/20 09:03	1
Bromomethane	0.830	U	10.0	0.830	ug/Kg			08/08/20 09:03	1
Trichlorofluoromethane	0.660	U	10.0	0.660	ug/Kg			08/08/20 09:03	1
Acrolein	6.23	U	25.0	6.23	ug/Kg			08/08/20 09:03	1
1,1-Dichloroethene	1.22	U	5.00	1.22	ug/Kg			08/08/20 09:03	1
trans-1,2-Dichloroethene	1.14	U	5.00	1.14	ug/Kg			08/08/20 09:03	1
Methyl tert-butyl ether	1.83	U	5.00	1.83	ug/Kg			08/08/20 09:03	1
Methylene Chloride	2.19	U	10.0	2.19	ug/Kg			08/08/20 09:03	1
Acrylonitrile	5.82	U	50.0	5.82	ug/Kg			08/08/20 09:03	1
cis-1,2-Dichloroethene	0.830	U	5.00	0.830	ug/Kg			08/08/20 09:03	1
Carbon tetrachloride	1.13	U	5.00	1.13	ug/Kg			08/08/20 09:03	1
Benzene	0.630	U	5.00	0.630	ug/Kg			08/08/20 09:03	1
1,2-Dichloroethane	0.900	U	5.00	0.900	ug/Kg			08/08/20 09:03	1
Trichloroethene	1.40	U	5.00	1.40	ug/Kg			08/08/20 09:03	1
1,1,1-Trichloroethane	0.740	U	5.00	0.740	ug/Kg			08/08/20 09:03	1
1,1-Dichloroethane	0.870	U	5.00	0.870	ug/Kg			08/08/20 09:03	1
1,2-Dichloropropane	0.710	U	5.00	0.710	ug/Kg			08/08/20 09:03	1
1,4-Dioxane	62.1	U	500	62.1	ug/Kg			08/08/20 09:03	1
Chloroform	1.041	J	10.0	0.660	ug/Kg			08/08/20 09:03	1
Bromodichloromethane	0.660	U	5.00	0.660	ug/Kg			08/08/20 09:03	1
1,1-Dichloropropene	0.650	U	5.00	0.650	ug/Kg			08/08/20 09:03	1
cis-1,3-Dichloropropene	0.540	U	5.00	0.540	ug/Kg			08/08/20 09:03	1
Toluene	1.38	U	5.00	1.38	ug/Kg			08/08/20 09:03	1
trans-1,3-Dichloropropene	0.580	U	5.00	0.580	ug/Kg			08/08/20 09:03	1
1,1,2-Trichloroethane	0.730	U	5.00	0.730	ug/Kg			08/08/20 09:03	1
Tetrachloroethene	0.710	U	5.00	0.710	ug/Kg			08/08/20 09:03	1
1,3-Dichloropropene, Total	0.580	U	5.00	0.580	ug/Kg			08/08/20 09:03	1
1,2-Dibromoethane	1.02	U	5.00	1.02	ug/Kg			08/08/20 09:03	1
Monochlorobenzene	0.960	U	5.00	0.960	ug/Kg			08/08/20 09:03	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			08/08/20 09:03	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			08/08/20 09:03	1
Styrene	0.710	U	5.00	0.710	ug/Kg			08/08/20 09:03	1
Tribromomethane	1.37	U	5.00	1.37	ug/Kg			08/08/20 09:03	1
1,1,2,2-Tetrachloroethane	0.870	U	5.00	0.870	ug/Kg			08/08/20 09:03	1
1,4-Dichlorobenzene	0.660	U	5.00	0.660	ug/Kg			08/08/20 09:03	1
1,2-Dichlorobenzene	0.800	U	5.00	0.800	ug/Kg			08/08/20 09:03	1
1,2,4-Trichlorobenzene	1.97	U	5.00	1.97	ug/Kg			08/08/20 09:03	1
Dichlorodifluoromethane	1.54	U	5.00	1.54	ug/Kg			08/08/20 09:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		61 - 130		08/08/20 09:03	1
Dibromofluoromethane	87		68 - 140		08/08/20 09:03	1
Toluene-d8 (Surr)	92		50 - 130		08/08/20 09:03	1
4-Bromofluorobenzene	113		57 - 140		08/08/20 09:03	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209485-1

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

Lab Sample ID: LCS 600-300707/3

Matrix: Solid

Analysis Batch: 300707

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	68.16		ug/Kg		136	44 - 141
Vinyl chloride	50.0	56.75		ug/Kg		113	40 - 148
Bromomethane	50.0	48.02		ug/Kg		96	37 - 147
Trichlorofluoromethane	50.0	57.85		ug/Kg		116	53 - 134
Acrolein	250	213.3		ug/Kg		85	10 - 150
1,1-Dichloroethene	50.0	44.56		ug/Kg		89	62 - 142
trans-1,2-Dichloroethene	50.0	47.78		ug/Kg		96	69 - 130
Methyl tert-butyl ether	50.0	50.55		ug/Kg		101	63 - 132
Methylene Chloride	50.0	46.72		ug/Kg		93	61 - 150
Acrylonitrile	500	477.4		ug/Kg		95	43 - 150
cis-1,2-Dichloroethene	50.0	43.88		ug/Kg		88	70 - 130
Carbon tetrachloride	50.0	50.78		ug/Kg		102	58 - 130
Benzene	50.0	45.50		ug/Kg		91	70 - 131
1,2-Dichloroethane	50.0	53.50		ug/Kg		107	58 - 137
Trichloroethene	50.0	41.64		ug/Kg		83	63 - 135
1,1,1-Trichloroethane	50.0	52.33		ug/Kg		105	59 - 130
1,1-Dichloroethane	50.0	51.11		ug/Kg		102	63 - 140
1,2-Dichloropropane	50.0	47.06		ug/Kg		94	70 - 130
1,4-Dioxane	1000	662.8		ug/Kg		66	31 - 150
Chloroform	50.0	49.95		ug/Kg		100	69 - 130
Bromodichloromethane	50.0	50.27		ug/Kg		101	67 - 138
1,1-Dichloropropene	50.0	47.30		ug/Kg		95	67 - 130
cis-1,3-Dichloropropene	50.0	48.77		ug/Kg		98	65 - 130
Toluene	50.0	45.97		ug/Kg		92	67 - 130
trans-1,3-Dichloropropene	50.0	49.22		ug/Kg		98	70 - 130
1,1,2-Trichloroethane	50.0	45.10		ug/Kg		90	67 - 134
Tetrachloroethene	50.0	43.27		ug/Kg		87	43 - 143
1,3-Dichloropropene, Total	100	97.99		ug/Kg		98	70 - 130
1,2-Dibromoethane	50.0	43.15		ug/Kg		86	65 - 136
Monochlorobenzene	50.0	45.30		ug/Kg		91	63 - 131
Ethylbenzene	50.0	44.42		ug/Kg		89	66 - 130
Xylenes, Total	100	91.39		ug/Kg		91	63 - 130
Styrene	50.0	44.25		ug/Kg		88	65 - 133
Tribromomethane	50.0	48.18		ug/Kg		96	43 - 150
1,1,2,2-Tetrachloroethane	50.0	47.62		ug/Kg		95	61 - 138
1,4-Dichlorobenzene	50.0	49.31		ug/Kg		99	65 - 131
1,2-Dichlorobenzene	50.0	49.61		ug/Kg		99	61 - 131
1,2,4-Trichlorobenzene	50.0	49.16		ug/Kg		98	53 - 136
Dichlorodifluoromethane	50.0	64.31		ug/Kg		129	24 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		61 - 130
Dibromofluoromethane	88		68 - 140
Toluene-d8 (Surr)	95		50 - 130
4-Bromofluorobenzene	110		57 - 140

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209485-1

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

Lab Sample ID: LCSD 600-300707/4

Matrix: Solid

Analysis Batch: 300707

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
Chloromethane	50.0	57.80		ug/Kg		116	44 - 141	16	30
Vinyl chloride	50.0	48.37		ug/Kg		97	40 - 148	16	30
Bromomethane	50.0	34.53	*	ug/Kg		69	37 - 147	33	30
Trichlorofluoromethane	50.0	53.31		ug/Kg		107	53 - 134	8	30
Acrolein	250	167.3		ug/Kg		67	10 - 150	24	30
1,1-Dichloroethene	50.0	39.90		ug/Kg		80	62 - 142	11	30
trans-1,2-Dichloroethene	50.0	43.12		ug/Kg		86	69 - 130	10	30
Methyl tert-butyl ether	50.0	49.06		ug/Kg		98	63 - 132	3	30
Methylene Chloride	50.0	40.83		ug/Kg		82	61 - 150	13	30
Acrylonitrile	500	382.6		ug/Kg		77	43 - 150	22	30
cis-1,2-Dichloroethene	50.0	43.72		ug/Kg		87	70 - 130	0	30
Carbon tetrachloride	50.0	48.66		ug/Kg		97	58 - 130	4	30
Benzene	50.0	43.98		ug/Kg		88	70 - 131	3	30
1,2-Dichloroethane	50.0	51.06		ug/Kg		102	58 - 137	5	30
Trichloroethene	50.0	40.15		ug/Kg		80	63 - 135	4	30
1,1,1-Trichloroethane	50.0	50.47		ug/Kg		101	59 - 130	4	30
1,1-Dichloroethane	50.0	48.37		ug/Kg		97	63 - 140	6	30
1,2-Dichloropropane	50.0	45.74		ug/Kg		91	70 - 130	3	30
1,4-Dioxane	1000	744.2		ug/Kg		74	31 - 150	12	30
Chloroform	50.0	47.93		ug/Kg		96	69 - 130	4	30
Bromodichloromethane	50.0	47.68		ug/Kg		95	67 - 138	5	30
1,1-Dichloropropene	50.0	47.28		ug/Kg		95	67 - 130	0	30
cis-1,3-Dichloropropene	50.0	45.41		ug/Kg		91	65 - 130	7	30
Toluene	50.0	43.25		ug/Kg		87	67 - 130	6	30
trans-1,3-Dichloropropene	50.0	46.31		ug/Kg		93	70 - 130	6	30
1,1,2-Trichloroethane	50.0	41.82		ug/Kg		84	67 - 134	8	30
Tetrachloroethene	50.0	41.84		ug/Kg		84	43 - 143	3	30
1,3-Dichloropropene, Total	100	91.72		ug/Kg		92	70 - 130	7	30
1,2-Dibromoethane	50.0	40.36		ug/Kg		81	65 - 136	7	30
Monochlorobenzene	50.0	43.22		ug/Kg		86	63 - 131	5	30
Ethylbenzene	50.0	42.25		ug/Kg		85	66 - 130	5	30
Xylenes, Total	100	87.88		ug/Kg		88	63 - 130	4	30
Styrene	50.0	42.79		ug/Kg		86	65 - 133	3	30
Tribromomethane	50.0	44.68		ug/Kg		89	43 - 150	8	30
1,1,2,2-Tetrachloroethane	50.0	41.86		ug/Kg		84	61 - 138	13	30
1,4-Dichlorobenzene	50.0	46.96		ug/Kg		94	65 - 131	5	30
1,2-Dichlorobenzene	50.0	46.90		ug/Kg		94	61 - 131	6	30
1,2,4-Trichlorobenzene	50.0	45.58		ug/Kg		91	53 - 136	8	30
Dichlorodifluoromethane	50.0	56.57		ug/Kg		113	24 - 147	13	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		61 - 130
Dibromofluoromethane	88		68 - 140
Toluene-d8 (Surr)	91		50 - 130
4-Bromofluorobenzene	107		57 - 140

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209485-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-300979/1-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.17	U	33.1	4.17	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiethylamine	7.14	U	33.1	7.14	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Bis(2-chloroethyl)ether	1.64	U	33.1	1.64	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachloroethane	2.30	U	33.1	2.30	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosopyrrolidine	4.65	U	33.1	4.65	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene	2.94	U	33.1	2.94	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Isophorone	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dichlorophenol	3.85	U	33.1	3.85	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Naphthalene	1.34	U	33.1	1.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobutadiene	1.91	U	33.1	1.91	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodi-n-butylamine	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2-Methylnaphthalene	2.73	U	33.1	2.73	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1-Methylnaphthalene	1.56	U	33.1	1.56	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1,2,4,5-Tetrachlorobenzene	6.71	U	33.1	6.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorocyclopentadiene	4.59	U	33.1	4.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,6-Trichlorophenol	2.67	U	33.1	2.67	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,5-Trichlorophenol	9.96	U	33.1	9.96	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dimethyl phthalate	4.86	U	66.3	4.86	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthylene	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,6-Dinitrotoluene	2.93	U	33.1	2.93	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthene	1.43	U	33.1	1.43	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitrophenols	4.69	U	99.5	4.69	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorobenzene	3.99	U	33.1	3.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dinitrotoluene	3.59	U	33.1	3.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diethyl phthalate	8.39	U	66.3	8.39	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluorene	2.35	U	33.1	2.35	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitro-o-cresol	4.95	U	169	4.95	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiphenylamine	1.88	U	33.1	1.88	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diphenylhydrazine, 1,2-	1.61	U	33.1	1.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobenzene	1.51	U	33.1	1.51	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Atrazine	4.99	U	33.1	4.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorophenol	3.98	U	166	3.98	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Phenanthrene	4.92	U	33.1	4.92	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Anthracene	1.27	U	33.1	1.27	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibutylphthalate	2.58	U	66.3	2.58	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluoranthene	3.09	U	33.1	3.09	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzidine	8.97	U	328	8.97	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pyrene	1.82	U	33.1	1.82	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dichlorobenzidine, 3,3'-	10.1	U	33.1	10.1	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]anthracene	1.37	U	33.1	1.37	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Di (2-ethylhexyl)phthalate	5.34	U	33.1	5.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Chrysene	1.01	U	33.1	1.01	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[b]fluoranthene	1.71	U	33.1	1.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[k]fluoranthene	1.48	U	33.1	1.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]pyrene	1.60	U	33.1	1.60	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Indeno[1,2,3-cd]pyrene	3.48	U	33.1	3.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibenz(a,h)anthracene	3.61	U	33.1	3.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[g,h,i]perylene	5.04	U	33.1	5.04	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209485-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-300979/1-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	8.79	U	33.1	8.79	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Thiophene, tetrahydro-, 1,1-dioxide	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		10 - 148	08/12/20 09:49	08/17/20 08:25	1
2-Fluorobiphenyl	90		38 - 130	08/12/20 09:49	08/17/20 08:25	1
2-Fluorophenol	84		25 - 132	08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene-d5	89		10 - 155	08/12/20 09:49	08/17/20 08:25	1
Terphenyl-d14	113		53 - 134	08/12/20 09:49	08/17/20 08:25	1
Phenol-d5 (Surr)	84		27 - 130	08/12/20 09:49	08/17/20 08:25	1

Lab Sample ID: LCS 600-300979/24-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	663	603.2		ug/Kg		91	50 - 150
N-Nitrosopyrrolidine	663	640.3		ug/Kg		97	50 - 150
N-Nitrosodi-n-butylamine	663	504.6		ug/Kg		76	50 - 150
Pentachlorobenzene	663	570.9		ug/Kg		86	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	99		10 - 148
2-Fluorobiphenyl	95		38 - 130
2-Fluorophenol	87		25 - 132
Nitrobenzene-d5	91		10 - 155
Terphenyl-d14	116		53 - 134
Phenol-d5 (Surr)	89		27 - 130

Lab Sample ID: LCS 600-300979/25-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thiophene, tetrahydro-, 1,1-dioxide	1330	1839		ug/Kg		138	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	56		10 - 148
2-Fluorobiphenyl	85		38 - 130
2-Fluorophenol	73		25 - 132
Nitrobenzene-d5	84		10 - 155
Terphenyl-d14	109		53 - 134
Phenol-d5 (Surr)	79		27 - 130

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209485-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	663	620.7		ug/Kg		94	29 - 130
Bis(2-chloroethyl)ether	663	632.1		ug/Kg		95	40 - 130
Hexachloroethane	663	616.4		ug/Kg		93	37 - 130
Nitrobenzene	663	664.3		ug/Kg		100	42 - 130
Isophorone	663	669.6		ug/Kg		101	39 - 130
2,4-Dichlorophenol	663	685.5		ug/Kg		103	38 - 130
Naphthalene	663	645.1		ug/Kg		97	40 - 130
Hexachlorobutadiene	663	643.5		ug/Kg		97	36 - 130
2-Methylnaphthalene	663	669.4		ug/Kg		101	43 - 130
1-Methylnaphthalene	663	645.4		ug/Kg		97	43 - 130
1,2,4,5-Tetrachlorobenzene	663	672.6		ug/Kg		101	37 - 130
Hexachlorocyclopentadiene	663	594.1		ug/Kg		90	10 - 130
2,4,6-Trichlorophenol	663	691.8		ug/Kg		104	39 - 130
2,4,5-Trichlorophenol	663	714.3		ug/Kg		108	41 - 130
Dimethyl phthalate	663	732.0		ug/Kg		110	40 - 130
Acenaphthylene	663	717.5		ug/Kg		108	39 - 130
2,6-Dinitrotoluene	663	718.6		ug/Kg		108	44 - 130
Acenaphthene	663	691.9		ug/Kg		104	42 - 130
Dinitrophenols	1330	1084		ug/Kg		82	15 - 130
2,4-Dinitrotoluene	663	719.1		ug/Kg		109	45 - 130
Diethyl phthalate	663	753.6		ug/Kg		114	50 - 130
Fluorene	663	722.7		ug/Kg		109	46 - 130
Dinitro-o-cresol	1330	1237		ug/Kg		93	38 - 130
N-Nitrosodiphenylamine	663	778.1		ug/Kg		117	48 - 130
Diphenylhydrazine, 1,2-	663	789.2		ug/Kg		119	50 - 130
Hexachlorobenzene	663	733.7		ug/Kg		111	44 - 130
Atrazine	663	523.8		ug/Kg		79	10 - 140
Pentachlorophenol	1330	1166		ug/Kg		88	40 - 130
Phenanthrene	663	759.4		ug/Kg		115	51 - 130
Anthracene	663	775.6		ug/Kg		117	51 - 130
Dibutylphthalate	663	860.8		ug/Kg		130	51 - 135
Fluoranthene	663	763.4		ug/Kg		115	53 - 130
Benzidine	3310	861.3		ug/Kg		26	10 - 130
Pyrene	663	785.6		ug/Kg		119	53 - 130
Dichlorobenzidine, 3,3'-	663	456.2		ug/Kg		69	13 - 146
Benzo[a]anthracene	663	760.5		ug/Kg		115	54 - 130
Di (2-ethylhexyl)phthalate	663	842.8		ug/Kg		127	41 - 145
Chrysene	663	776.4		ug/Kg		117	52 - 130
Benzo[b]fluoranthene	663	733.1		ug/Kg		111	41 - 139
Benzo[k]fluoranthene	663	726.2		ug/Kg		110	42 - 134
Benzo[a]pyrene	663	719.7		ug/Kg		109	44 - 131
Indeno[1,2,3-cd]pyrene	663	738.7		ug/Kg		111	35 - 146
Dibenz(a,h)anthracene	663	775.0		ug/Kg		117	40 - 137
Benzo[g,h,i]perylene	663	778.5		ug/Kg		117	38 - 142
bis (2-chloroisopropyl) ether	663	638.6		ug/Kg		96	38 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	100		10 - 148

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209485-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	98		38 - 130
2-Fluorophenol	91		25 - 132
Nitrobenzene-d5	95		10 - 155
Terphenyl-d14	112		53 - 134
Phenol-d5 (Surr)	93		27 - 130

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-500496/1-A

Matrix: Solid

Analysis Batch: 500677

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 500496

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	Result	Qualifier					08/17/20 09:48	08/18/20 13:08	1
	12.0	U	66.0	12.0	ug/Kg				
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	%Recovery	Qualifier					08/17/20 09:48	08/18/20 13:08	1
	86		30 - 164						

Lab Sample ID: LCS 400-500496/2-A

Matrix: Solid

Analysis Batch: 500677

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 500496

Analyte		Spike	LCS	LCS	Unit	D	%Rec	%Rec.
Prometon		Added	Result	Qualifier			96	Limits
		333	320.1		ug/Kg			40 - 140
Surrogate	LCS	LCS	Limits					
Triphenylphosphate	%Recovery	Qualifier						
	94		30 - 164					

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-300708/3-A

Matrix: Solid

Analysis Batch: 300709

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300708

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	Result	Qualifier					08/08/20 07:14	08/08/20 09:47	1
	0.586	U	1.00	0.586	mg/Kg				
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	%Recovery	Qualifier					08/08/20 07:14	08/08/20 09:47	1
	95		70 - 130						

Lab Sample ID: LCS 600-300708/1-A

Matrix: Solid

Analysis Batch: 300709

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300708

Analyte		Spike	LCS	LCS	Unit	D	%Rec	%Rec.
Gasoline Range Organics [C6 - C10]		Added	Result	Qualifier			101	Limits
		5.04	5.069		mg/Kg			70 - 130

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209485-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCS 600-300708/1-A

Matrix: Solid

Analysis Batch: 300709

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300708

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	96		70 - 130

Lab Sample ID: LCSD 600-300708/2-A

Matrix: Solid

Analysis Batch: 300709

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300708

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	5.04	5.417		mg/Kg		108	70 - 130	7	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	96		70 - 130						

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

Lab Sample ID: MB 600-300806/1-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg		08/10/20 15:56	08/13/20 11:51	1
C28-C36	4.97	U	4.97	4.97	mg/Kg		08/10/20 15:56	08/13/20 11:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
o-Terphenyl	125		60 - 140						
							Prepared	Analyzed	Dil Fac
							08/10/20 15:56	08/13/20 11:51	1

Lab Sample ID: LCS 600-300806/2-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300806

			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			66.6	70.64		mg/Kg		106	66 - 134		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
o-Terphenyl	131		60 - 140								

Lab Sample ID: LCSD 600-300806/3-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300806

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	66.6	75.11		mg/Kg		113	66 - 134	6	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
o-Terphenyl	131		60 - 140						

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209485-1

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 600-300862/1-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.30	U	1.69	1.30	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, beta-	1.02	U	1.69	1.02	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, delta-	0.847	U	1.69	0.847	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, alpha-	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, gamma-	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Chlordane (technical)	23.3	U	74.7	23.3	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
DDT	1.84	U	3.29	1.84	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Dieldrin	1.38	U	3.29	1.38	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan I	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan II	1.50	U	3.29	1.50	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan sulfate	1.67	U	3.29	1.67	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin	1.52	U	3.29	1.52	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin aldehyde	1.55	U	3.29	1.55	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor epoxide	1.17	U	1.69	1.17	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Toxaphene	72.8	U	169	72.8	ug/Kg		08/11/20 08:51	08/11/20 19:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	127		47 - 150	08/11/20 08:51	08/11/20 19:37	1
Tetrachloro-m-xylene	116		50 - 143	08/11/20 08:51	08/11/20 19:37	1

Lab Sample ID: LCS 600-300862/2-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aldrin	16.6	18.06		ug/Kg		109	42 - 150
Hexachlorocyclohexane, beta-	16.6	18.03		ug/Kg		108	32 - 150
Hexachlorocyclohexane, delta-	16.6	20.49		ug/Kg		123	33 - 150
Hexachlorocyclohexane, alpha-	16.6	18.14		ug/Kg		109	63 - 130
Hexachlorocyclohexane, gamma-	16.6	18.30		ug/Kg		110	36 - 150
DDT	16.6	22.31		ug/Kg		134	46 - 150
Dieldrin	16.6	18.72		ug/Kg		113	42 - 150
Endosulfan I	16.6	13.84		ug/Kg		83	37 - 150
Endosulfan II	16.6	18.94		ug/Kg		114	43 - 150
Endosulfan sulfate	16.6	20.02		ug/Kg		120	32 - 150
Endrin	16.6	20.38		ug/Kg		123	41 - 150
Endrin aldehyde	16.6	22.48		ug/Kg		135	42 - 150
Heptachlor	16.6	18.17		ug/Kg		109	35 - 150
Heptachlor epoxide	16.6	17.12		ug/Kg		103	42 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	76		47 - 150
Tetrachloro-m-xylene	74		50 - 143

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209485-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 600-300862/3-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	16.6	17.36		ug/Kg		104	42 - 150	4	20
Hexachlorocyclohexane, beta-	16.6	18.09		ug/Kg		109	32 - 150	0	20
Hexachlorocyclohexane, delta-	16.6	20.47		ug/Kg		123	33 - 150	0	20
Hexachlorocyclohexane, alpha-	16.6	16.93		ug/Kg		102	63 - 130	7	20
Hexachlorocyclohexane, gamma-	16.6	17.29		ug/Kg		104	36 - 150	6	20
DDT	16.6	22.58		ug/Kg		136	46 - 150	1	20
Dieldrin	16.6	18.96		ug/Kg		114	42 - 150	1	20
Endosulfan I	16.6	14.22		ug/Kg		86	37 - 150	3	20
Endosulfan II	16.6	18.23		ug/Kg		110	43 - 150	4	20
Endosulfan sulfate	16.6	20.67		ug/Kg		124	32 - 150	3	20
Endrin	16.6	21.64		ug/Kg		130	41 - 150	6	20
Endrin aldehyde	16.6	23.30		ug/Kg		140	42 - 150	4	20
Heptachlor	16.6	16.75		ug/Kg		101	35 - 150	8	20
Heptachlor epoxide	16.6	16.99		ug/Kg		102	42 - 150	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	104		47 - 150
Tetrachloro-m-xylene	89		50 - 143

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 600-300862/1-A

Matrix: Solid

Analysis Batch: 300977

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00159	U	0.0166	0.00159	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1221	0.00860	U	0.0166	0.00860	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1232	0.00667	U	0.0166	0.00667	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1242	0.00124	U	0.0166	0.00124	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1248	0.00248	U	0.0166	0.00248	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1254	0.00220	U	0.0166	0.00220	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1260	0.0134	U	0.0166	0.0134	mg/Kg		08/11/20 08:51	08/12/20 12:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	117		10 - 150	08/11/20 08:51	08/12/20 12:54	1
DCB Decachlorobiphenyl	165	X	10 - 150	08/11/20 08:51	08/12/20 12:54	1

Lab Sample ID: LCS 600-300862/4-A

Matrix: Solid

Analysis Batch: 300977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.166	0.1532		mg/Kg		92	42 - 130
PCB-1260	0.166	0.1225		mg/Kg		74	59 - 135

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209485-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 600-300862/4-A

Matrix: Solid

Analysis Batch: 300977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300862

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	85		10 - 150
DCB Decachlorobiphenyl	104		10 - 150

Lab Sample ID: LCSD 600-300862/5-A

Matrix: Solid

Analysis Batch: 300977

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	0.166	0.1574		mg/Kg		95	42 - 130	3	30
PCB-1260	0.166	0.1241		mg/Kg		75	59 - 135	1	30

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	78		10 - 150
DCB Decachlorobiphenyl	101		10 - 150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/11/20 11:50	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/11/20 11:50	1

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/12/20 02:57	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/12/20 02:57	1

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	98.87		mg/Kg		99	90 - 110
Nitrite as N	100	101.4		mg/Kg		101	90 - 110

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	91.93		mg/Kg		92	90 - 110
Nitrite as N	100	100.5		mg/Kg		100	90 - 110

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209485-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			08/11/20 11:50	1
Fluoride	0.601	U	2.00	0.601	mg/Kg			08/11/20 11:50	1
Sulfate	0.957	U	5.00	0.957	mg/Kg			08/11/20 11:50	1

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	193.0		mg/Kg		97	90 - 110
Fluoride	75.0	82.00		mg/Kg		109	90 - 110
Sulfate	200	193.9		mg/Kg		97	90 - 110

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-505436/1-A

Matrix: Solid

Analysis Batch: 505596

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505436

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		08/12/20 15:04	08/13/20 16:41	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		08/12/20 15:04	08/13/20 16:41	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		08/12/20 15:04	08/13/20 16:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	102		83 - 122	08/12/20 15:04	08/13/20 16:41	1

Lab Sample ID: LCS 280-505436/2-A

Matrix: Solid

Analysis Batch: 505596

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505436

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	1.051		mg/Kg		105	80 - 124
2,4,6-Trinitrotoluene	1.00	1.050		mg/Kg		105	80 - 120

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

Lab Sample ID: 600-209485-1 MS

Matrix: Solid

Analysis Batch: 505596

Client Sample ID: CELL17-SQUARE197-S-2-3-200806

Prep Type: Total/NA

Prep Batch: 505436

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0227	U	0.960	0.9472		mg/Kg		99	80 - 120

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209485-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 600-209485-1 MS

Client Sample ID: CELL17-SQUARE197-S-2-3-200806

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 505596

Prep Batch: 505436

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.960	0.8479		mg/Kg		88	80 - 124
2,4,6-Trinitrotoluene	0.0306	U	0.960	1.021		mg/Kg		106	80 - 120
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dinitrobenzene	102		83 - 122						

Lab Sample ID: 600-209485-1 MSD

Client Sample ID: CELL17-SQUARE197-S-2-3-200806

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 505596

Prep Batch: 505436

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0227	U	0.954	0.9364		mg/Kg		98	80 - 120	1	30
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.954	0.8621		mg/Kg		90	80 - 124	2	30
2,4,6-Trinitrotoluene	0.0306	U	0.954	1.022		mg/Kg		107	80 - 120	0	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dinitrobenzene	103		83 - 122								

Lab Sample ID: 600-209485-2 DU

Client Sample ID: CELL17-SQUARE152-S-2-3-200806

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 505596

Prep Batch: 505436

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	0.0227	U	0.162	U	mg/Kg		NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.307	U	mg/Kg		NC	20
2,4,6-Trinitrotoluene	0.0306	U	0.219	U	mg/Kg		NC	20
Surrogate	DU %Recovery	DU Qualifier	Limits					
1,2-Dinitrobenzene	102		83 - 122					

Lab Sample ID: 600-209485-2 TRL

Client Sample ID: CELL17-SQUARE152-S-2-3-200806

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 505596

Prep Batch: 505436

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	0.0227	U	0.0217	U	mg/Kg		NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.0411	U	mg/Kg		NC	20
2,4,6-Trinitrotoluene	0.0306	U	0.0293	U	mg/Kg		NC	20
Surrogate	TRL %Recovery	TRL Qualifier	Limits					
1,2-Dinitrobenzene	102		83 - 122					

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209485-1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: MB 280-505376/1-A

Matrix: Solid

Analysis Batch: 506026

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		08/12/20 11:00	08/20/20 14:31	1

Lab Sample ID: LCS 280-505376/2-A

Matrix: Solid

Analysis Batch: 506026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5330		ug/Kg		107	80 - 120

Lab Sample ID: 600-209485-1 MS

Matrix: Solid

Analysis Batch: 506026

Client Sample ID: CELL17-SQUARE197-S-2-3-200806

Prep Type: Total/NA

Prep Batch: 505376

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.759		0.535	1.104	N1	ug/Kg	☼	64	70 - 130

Lab Sample ID: 600-209485-1 MSD

Matrix: Solid

Analysis Batch: 506026

Client Sample ID: CELL17-SQUARE197-S-2-3-200806

Prep Type: Total/NA

Prep Batch: 505376

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Perchlorate	0.759		0.537	1.155		ug/Kg	☼	74	70 - 130	4	15

Lab Sample ID: DLCK 280-506024/12

Matrix: Solid

Analysis Batch: 506024

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	0.04997	J	ug/L		100	70 - 130

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-500633/14

Matrix: Solid

Analysis Batch: 500633

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	0.4920	J	ug/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4537	J	ug/L		100	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		92	70 - 130

Surrogate	DLCK %Recovery	DLCK Qualifier	Limits
13C8 PFOA	108		57 - 153
13C8 PFOS	91		70 - 130

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209485-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 280-505864/1-A

Matrix: Solid

Analysis Batch: 506717

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505864

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		08/17/20 14:49	08/24/20 11:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		08/17/20 14:49	08/24/20 11:46	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		08/17/20 14:49	08/24/20 11:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153				08/17/20 14:49	08/24/20 11:46	1
13C8 PFOS	94		70 - 130				08/17/20 14:49	08/24/20 11:46	1

Lab Sample ID: LCS 280-505864/2-A

Matrix: Solid

Analysis Batch: 506717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	18.81		ug/Kg		94	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	16.81		ug/Kg		92	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	18.69		ug/Kg		101	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
13C8 PFOA	101		57 - 153				
13C8 PFOS	98		70 - 130				

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-479336/1-A ^2

Matrix: Solid

Analysis Batch: 479582

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 479336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0656	U	0.175	0.0656	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Arsenic	0.350	U	0.875	0.350	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Barium	0.438	U	1.75	0.438	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Cadmium	0.0210	U	0.0438	0.0210	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Chromium	0.394	U	0.875	0.394	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Iron	5.25	U	10.5	5.25	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Copper	0.350	U	0.875	0.350	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Manganese	0.175	U	0.438	0.175	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Lead	0.109	U	0.263	0.109	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Antimony	0.175	U	0.438	0.175	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Selenium	0.280	U	0.438	0.280	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Thallium	0.175	U	0.438	0.175	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Zinc	1.75	U	4.38	1.75	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Uranium	0.0350	U	0.0875	0.0350	mg/Kg		08/13/20 11:03	08/14/20 19:16	2

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209485-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 160-479336/1-A ^2

Matrix: Solid

Analysis Batch: 480286

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 479336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.0350	U	0.0875	0.0350	mg/Kg		08/13/20 11:03	08/21/20 17:53	2

Lab Sample ID: LCS 160-479336/2-A ^2

Matrix: Solid

Analysis Batch: 479582

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 479336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	19.7	19.01		mg/Kg		96	66 - 133
Arsenic	98.6	102.8		mg/Kg		104	70 - 131
Barium	98.6	96.21		mg/Kg		98	74 - 125
Beryllium	9.87	9.322		mg/Kg		94	74 - 126
Cadmium	98.5	101.0		mg/Kg		103	73 - 139
Chromium	98.6	105.1		mg/Kg		107	69 - 130
Iron	98.6	102.8		mg/Kg		104	32 - 167
Copper	98.5	112.8		mg/Kg		114	73 - 126
Manganese	98.6	102.7		mg/Kg		104	77 - 124
Lead	98.5	104.5		mg/Kg		106	80 - 120
Antimony	49.3	45.79		mg/Kg		93	21 - 251
Selenium	49.3	50.05		mg/Kg		102	69 - 131
Thallium	19.7	20.63		mg/Kg		105	68 - 131
Zinc	98.5	103.4		mg/Kg		105	71 - 128
Uranium	98.6	103.5		mg/Kg		105	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 600-302704/7-A

Matrix: Solid

Analysis Batch: 302818

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 302704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00341	U	0.0162	0.00341	mg/Kg		09/02/20 13:16	09/03/20 13:22	1

Lab Sample ID: LCS 600-302704/8-A

Matrix: Solid

Analysis Batch: 302818

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 302704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.2549		mg/Kg		110	70 - 130

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: LB 600-301322/1-A

Matrix: Solid

Analysis Batch: 301367

Client Sample ID: Method Blank

Prep Type: 7 Day Leach

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			08/17/20 11:57	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209485-1

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: 600-209485-1 DU

Matrix: Solid

Analysis Batch: 301367

Client Sample ID: CELL17-SQUARE197-S-2-3-200806

Prep Type: 7 Day Leach

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	117		113.0		mg/L		3	10

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 600-301619/1-A

Matrix: Solid

Analysis Batch: 301634

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00150	U	0.0100	0.00150	mg/Kg		08/19/20 16:06	08/19/20 22:11	1

Lab Sample ID: LCS 600-301619/2-A

Matrix: Solid

Analysis Batch: 301634

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.1093		mg/Kg		109	90 - 110

Lab Sample ID: 600-209485-1 MS

Matrix: Solid

Analysis Batch: 301634

Client Sample ID: CELL17-SQUARE197-S-2-3-200806

Prep Type: Total/NA

Prep Batch: 301619

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0188	U	1.28	0.1525	N1	mg/Kg	✱	12	90 - 110

Lab Sample ID: 600-209485-1 MSD

Matrix: Solid

Analysis Batch: 301634

Client Sample ID: CELL17-SQUARE197-S-2-3-200806

Prep Type: Total/NA

Prep Batch: 301619

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.0188	U	1.28	0.2096	N1 N2	mg/Kg	✱	16	90 - 110	32	20

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation)

Lab Sample ID: MB 600-301626/1-A

Matrix: Solid

Analysis Batch: 301633

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.004840	J	0.00500	0.00419	mg/Kg		08/19/20 16:29	08/19/20 20:57	1

Lab Sample ID: LCS 600-301626/2-A

Matrix: Solid

Analysis Batch: 301633

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.100	0.1004		mg/Kg		100	90 - 110

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209485-1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-479981/1-A

Matrix: Solid

Analysis Batch: 482295

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 479981

Analyte	MB Result	MB Qualifier	Count Uncert. (2 σ +/-)	Total Uncert. (2 σ +/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03656	U	0.0485	0.0486	1.00	0.529	pCi/g	08/20/20 11:43	09/12/20 09:20	1
Radium-228	0.1104	U	0.223	0.224		0.307	pCi/g	08/20/20 11:43	09/12/20 09:20	1
Combined Radium 226 + 228	0.1470	U	0.228	0.229		0.529	pCi/g	08/20/20 11:43	09/12/20 09:20	1

Lab Sample ID: LCS 160-479981/2-A

Matrix: Solid

Analysis Batch: 482368

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 479981

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2 σ +/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.5	94.70		9.93		0.973	pCi/g	98	87 - 116
Cesium-137	26.9	25.80		2.74		0.148	pCi/g	96	87 - 120
Cobalt-60	9.78	9.353		0.981		0.0584	pCi/g	96	87 - 115

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209485-1

Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Analysis Batch: 300707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8260B	300714
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8260B	300714
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	8260B	300714
MB 600-300707/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-300707/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-300707/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 300714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	5030B	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	5030B	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	5030B	

GC/MS Semi VOA

Prep Batch: 300979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	3546	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	3546	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	3546	
MB 600-300979/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 301300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8270C LL	300979
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8270C LL	300979
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	8270C LL	300979
MB 600-300979/1-A	Method Blank	Total/NA	Solid	8270C LL	300979
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979

Prep Batch: 500496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	3546	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	3546	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	3546	
MB 400-500496/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-500496/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 500677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8270D	500496
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8270D	500496
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	8270D	500496
MB 400-500496/1-A	Method Blank	Total/NA	Solid	8270D	500496
LCS 400-500496/2-A	Lab Control Sample	Total/NA	Solid	8270D	500496

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209485-1

Project/Site: Chevron - Jal Land Farm Soils

GC VOA

Prep Batch: 300708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	5030B	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	5030B	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	5030B	
MB 600-300708/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-300708/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-300708/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 300709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8015B	300708
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8015B	300708
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	8015B	300708
MB 600-300708/3-A	Method Blank	Total/NA	Solid	8015B	300708
LCS 600-300708/1-A	Lab Control Sample	Total/NA	Solid	8015B	300708
LCSD 600-300708/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300708

GC Semi VOA

Prep Batch: 300806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	3546	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	3546	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	3546	
MB 600-300806/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 300862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	3546	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	3546	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	3546	
MB 600-300862/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300862/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
LCSD 600-300862/5-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 300913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8081A	300862
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8081A	300862
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	8081A	300862
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8081A	300862
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	8081A	300862
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	300862

Analysis Batch: 300977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8082	300862
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8082	300862

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209485-1

GC Semi VOA (Continued)

Analysis Batch: 300977 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	8082	300862
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8082	300862
LCS 600-300862/4-A	Lab Control Sample	Total/NA	Solid	8082	300862
LCSD 600-300862/5-A	Lab Control Sample Dup	Total/NA	Solid	8082	300862

Analysis Batch: 301085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8015B	300806
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8015B	300806
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	8015B	300806
MB 600-300806/1-A	Method Blank	Total/NA	Solid	8015B	300806
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	8015B	300806
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300806

HPLC/IC

Analysis Batch: 300880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Soluble	Solid	300.0	300916
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Soluble	Solid	300.0	300916
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

Analysis Batch: 300881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Soluble	Solid	300.0	300916
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Soluble	Solid	300.0	300916
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

Leach Batch: 300916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Soluble	Solid	DI Leach	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Soluble	Solid	DI Leach	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Soluble	Solid	DI Leach	
MB 600-300916/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

ISM Prep Batch: 505294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209485-1 MS	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209485-1 MSD	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209485-2 DU	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209485-2 TRL	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	Increment, prep	

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209485-1

Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Prep Batch: 505436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8330B	505294
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8330B	505294
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	8330B	505294
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	
600-209485-1 MS	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8330B	505294
600-209485-1 MSD	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8330B	505294
600-209485-2 DU	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8330B	505294
600-209485-2 TRL	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8330B	505294

Analysis Batch: 505596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8330B	505436
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8330B	505436
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	8330B	505436
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	505436
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	505436
600-209485-1 MS	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8330B	505436
600-209485-1 MSD	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8330B	505436
600-209485-2 DU	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8330B	505436
600-209485-2 TRL	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8330B	505436

LCMS

Analysis Batch: 500633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-500633/14	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Prep Batch: 505376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	6860	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	6860	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	6860	
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	
600-209485-1 MS	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	6860	
600-209485-1 MSD	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	6860	

Prep Batch: 505864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	PFC leach	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	PFC leach	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	PFC leach	
MB 280-505864/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 506024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-506024/12	Lab Control Sample	Total/NA	Solid	6860	

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209485-1

LCMS

Analysis Batch: 506026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	6860	505376
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	6860	505376
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	6860	505376
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	505376
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	505376
600-209485-1 MS	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	6860	505376
600-209485-1 MSD	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	6860	505376

Analysis Batch: 506717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
MB 280-505864/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	505864
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	505864

Metals

Prep Batch: 302704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	7471B	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	7471B	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	7471B	
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 302818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	7471B	302704
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	7471B	302704
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	7471B	302704
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	302704
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	302704

Prep Batch: 479336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	3050B	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	3050B	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	3050B	
MB 160-479336/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 160-479336/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 479582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	6020	479336
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	6020	479336
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	6020	479336
MB 160-479336/1-A ^2	Method Blank	Total/NA	Solid	6020	479336
LCS 160-479336/2-A ^2	Lab Control Sample	Total/NA	Solid	6020	479336

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209485-1

Metals

Analysis Batch: 480286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	6020	479336
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	6020	479336
MB 160-479336/1-A ^2	Method Blank	Total/NA	Solid	6020	479336

General Chemistry

Analysis Batch: 300861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	2540B	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	2540B	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	2540B	

Leach Batch: 301322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	7 Day Leach	Solid	335.521	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	7 Day Leach	Solid	335.521	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	7 Day Leach	Solid	335.521	
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	335.521	
600-209485-1 DU	CELL17-SQUARE197-S-2-3-200806	7 Day Leach	Solid	335.521	

Analysis Batch: 301367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301322
600-209485-2	CELL17-SQUARE152-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301322
600-209485-3	CELL17-SQUARE92-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301322
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	2540 C-1997	301322
600-209485-1 DU	CELL17-SQUARE197-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301322

Prep Batch: 301619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	9012B	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	9012B	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	9012B	
MB 600-301619/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 600-301619/2-A	Lab Control Sample	Total/NA	Solid	9012B	
600-209485-1 MS	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	9012B	
600-209485-1 MSD	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	9012B	

Prep Batch: 301626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	Distill/Phenol	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	Distill/Phenol	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	Distill/Phenol	
MB 600-301626/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 600-301626/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 301633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	9066	301626
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	9066	301626
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	9066	301626

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QC Association Summary

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

Job ID: 600-209485-1

General Chemistry (Continued)

Analysis Batch: 301633 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-301626/1-A	Method Blank	Total/NA	Solid	9066	301626
LCS 600-301626/2-A	Lab Control Sample	Total/NA	Solid	9066	301626

Analysis Batch: 301634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	9012B	301619
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	9012B	301619
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	9012B	301619
MB 600-301619/1-A	Method Blank	Total/NA	Solid	9012B	301619
LCS 600-301619/2-A	Lab Control Sample	Total/NA	Solid	9012B	301619
600-209485-1 MS	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	9012B	301619
600-209485-1 MSD	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	9012B	301619

Analysis Batch: 302075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	9045D	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	9045D	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	9045D	
LCS 600-302075/1	Lab Control Sample	Total/NA	Solid	9045D	

Rad

Leach Batch: 479526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	Dry and Grind	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	Dry and Grind	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	Dry and Grind	

Prep Batch: 479981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479526
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479526
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479526
MB 160-479981/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-479981/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE197-S-2-3-200806

Lab Sample ID: 600-209485-1

Date Collected: 08/06/20 10:47

Matrix: Solid

Date Received: 08/07/20 09:20

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					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.02 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 17:27	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300861	08/11/20 08:50	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.05 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479526	08/14/20 11:54	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			335.1 g	1.0 g	479981	08/20/20 11:43	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			482294	09/12/20 10:33	SCB	TAL SL

Client Sample ID: CELL17-SQUARE197-S-2-3-200806

Lab Sample ID: 600-209485-1

Date Collected: 08/06/20 10:47

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	300714	08/08/20 10:45	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	300707	08/08/20 12:53	WS1	TAL HOU
Total/NA	Prep	3546			15.09 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 12:00	TTD	TAL HOU
Total/NA	Prep	3546			15.09 g	1 mL	500496	08/17/20 09:48	SHB	TAL PEN
Total/NA	Analysis	8270D		1			500677	08/18/20 19:50	PP1	TAL PEN
Total/NA	Prep	5030B			9.92 g	10 mL	300708	08/08/20 07:14	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	300709	08/08/20 11:27	WS1	TAL HOU
Total/NA	Prep	3546			10.04 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 15:16	RJV	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/11/20 22:05	JAL	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			300977	08/12/20 15:41	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 19:07	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 19:07	W1N	TAL HOU
Total/NA	Prep	6860			10.19 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 14:47	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.77 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 12:47	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5130 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			479582	08/14/20 19:44	FLC	TAL SL
Total/NA	Prep	7471B			0.62 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:38	DCL	TAL HOU
Total/NA	Prep	9012B			0.532 g	6.0 mL	301619	08/19/20 16:06	AML	TAL HOU
Total/NA	Analysis	9012B		1			301634	08/19/20 22:15	AML	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE197-S-2-3-200806

Lab Sample ID: 600-209485-1

Date Collected: 08/06/20 10:47

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/Phenol			0.502 g	50.0 mL	301626	08/19/20 16:29	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301633	08/19/20 20:37	AML	TAL HOU

Client Sample ID: CELL17-SQUARE152-S-2-3-200806

Lab Sample ID: 600-209485-2

Date Collected: 08/06/20 11:30

Matrix: Solid

Date Received: 08/07/20 09:20

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					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.02 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 18:59	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300861	08/11/20 08:50	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.10 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479526	08/14/20 11:54	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			368.5 g	1.0 g	479981	08/20/20 11:43	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			482296	09/12/20 10:36	SCB	TAL SL

Client Sample ID: CELL17-SQUARE152-S-2-3-200806

Lab Sample ID: 600-209485-2

Date Collected: 08/06/20 11:30

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.83 g	5 mL	300714	08/08/20 10:45	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	300707	08/08/20 13:16	WS1	TAL HOU
Total/NA	Prep	3546			15.02 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 12:25	TTD	TAL HOU
Total/NA	Prep	3546			15.42 g	1 mL	500496	08/17/20 09:48	SHB	TAL PEN
Total/NA	Analysis	8270D		1			500677	08/18/20 20:15	PP1	TAL PEN
Total/NA	Prep	5030B			9.59 g	10 mL	300708	08/08/20 07:14	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	300709	08/08/20 11:52	WS1	TAL HOU
Total/NA	Prep	3546			10.04 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 15:50	RJV	TAL HOU
Total/NA	Prep	3546			15.03 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/11/20 22:30	JAL	TAL HOU
Total/NA	Prep	3546			15.03 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			300977	08/12/20 16:06	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 19:27	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 19:27	W1N	TAL HOU
Total/NA	Prep	6860			10.30 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 15:02	TMC	TAL DEN

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE152-S-2-3-200806

Lab Sample ID: 600-209485-2

Date Collected: 08/06/20 11:30

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFC leach			10.644 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 12:56	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5909 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			479582	08/14/20 19:46	FLC	TAL SL
Total/NA	Prep	3050B			0.5909 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		100			480286	08/21/20 17:58	FLC	TAL SL
Total/NA	Prep	7471B			0.65 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:40	DCL	TAL HOU
Total/NA	Prep	9012B			0.530 g	6.0 mL	301619	08/19/20 16:06	AML	TAL HOU
Total/NA	Analysis	9012B		1			301634	08/19/20 22:17	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.507 g	50.0 mL	301626	08/19/20 16:29	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301633	08/19/20 20:38	AML	TAL HOU

Client Sample ID: CELL17-SQUARE92-S-2-3-200806

Lab Sample ID: 600-209485-3

Date Collected: 08/06/20 12:27

Matrix: Solid

Date Received: 08/07/20 09:20

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					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.87 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 20:08	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300861	08/11/20 08:50	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.06 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479526	08/14/20 11:54	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			320.4 g	1.0 g	479981	08/20/20 11:43	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			482298	09/12/20 10:31	SCB	TAL SL

Client Sample ID: CELL17-SQUARE92-S-2-3-200806

Lab Sample ID: 600-209485-3

Date Collected: 08/06/20 12:27

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.72 g	5 mL	300714	08/08/20 10:45	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	300707	08/08/20 13:40	WS1	TAL HOU
Total/NA	Prep	3546			15.09 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 12:49	TTD	TAL HOU
Total/NA	Prep	3546			15.01 g	1 mL	500496	08/17/20 09:48	SHB	TAL PEN
Total/NA	Analysis	8270D		1			500677	08/18/20 20:40	PP1	TAL PEN
Total/NA	Prep	5030B			9.61 g	10 mL	300708	08/08/20 07:14	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	300709	08/08/20 12:16	WS1	TAL HOU
Total/NA	Prep	3546			10.06 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 16:23	RJV	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE92-S-2-3-200806

Lab Sample ID: 600-209485-3

Date Collected: 08/06/20 12:27

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/11/20 22:54	JAL	TAL HOU
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			300977	08/12/20 16:31	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 19:48	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 19:48	W1N	TAL HOU
Total/NA	Prep	6860			10.67 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 15:07	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.36 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 13:05	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5087 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			479582	08/14/20 19:55	FLC	TAL SL
Total/NA	Prep	3050B			0.5087 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			480286	08/21/20 18:00	FLC	TAL SL
Total/NA	Prep	7471B			0.60 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:42	DCL	TAL HOU
Total/NA	Prep	9012B			0.520 g	6.0 mL	301619	08/19/20 16:06	AML	TAL HOU
Total/NA	Analysis	9012B		1			301634	08/19/20 22:18	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.503 g	50.0 mL	301626	08/19/20 16:29	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301633	08/19/20 20:43	AML	TAL HOU

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

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

Job ID: 600-209485-1

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-20-26	10-31-20
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
2540 C-1997		Solid	Total Dissolved Solids
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	C28-C36
8260B	5030B	Solid	1,3-Dichloropropene, Total
8270C LL	3546	Solid	1-Methylnaphthalene
8270C LL	3546	Solid	Atrazine
8270C LL	3546	Solid	Thiophene, tetrahydro-, 1,1-dioxide
9045D		Solid	pH

Laboratory: Eurofins TestAmerica, Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-21
Alaska (UST)	State	18-001	02-08-21
Arizona	State	AZ0713	12-20-20
Arkansas DEQ	State	19-047-0	06-01-21
California	State	2513	01-08-21
Connecticut	State	PH-0686	09-30-20
Florida	NELAP	E87667-57	07-01-21
Georgia	State	4025-011	01-09-21
Illinois	NELAP	2000172019-1	04-30-21
Iowa	State	IA#370	12-01-20
Kansas	NELAP	E-10166	04-30-21
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-21
Maine	State	2019011 (231)	03-03-21
Minnesota	NELAP	1788752	12-31-20
Nevada	State	CO000262020-1	08-31-20
New Hampshire	NELAP	205319	04-29-21
New Jersey	NELAP	190002	06-30-21
New York	NELAP	59923	04-01-21
North Carolina (WW/SW)	State	358	12-31-20
North Dakota	State	R-034	01-08-21
Oklahoma	State	2018-006	08-31-20
Oregon	NELAP	4025-011	01-08-21
Pennsylvania	NELAP	013	07-31-21
South Carolina	State	72002001	01-08-21
Texas	NELAP	T104704183-19-17	09-30-20
US Fish & Wildlife	US Federal Programs	058448	08-01-21
USDA	US Federal Programs	P330-18-00099	03-26-21
Utah	NELAP	QUAN5	06-30-13 *

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

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209485-1

Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, Denver (Continued)

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

Authority	Program	Identification Number	Expiration Date
Utah	NELAP	CO000262019-11	07-31-21
Virginia	NELAP	10490	06-14-21
Washington	State	C583-19	08-03-21
West Virginia DEP	State	354	11-30-20
Wisconsin	State	999615430	08-31-20
Wyoming (UST)	A2LA	2907.01	10-31-21

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-21
Kansas	NELAP	E-10253	10-31-20
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	09-30-20

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209485-1

Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, 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	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-20

Eurofins TestAmerica, Houston

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 590-4444 Fax (713) 690-5646

Chain of Custody Record



Environmental Testing
America

Client Information Client Contact: Alison Schaffer Company: ARCADIS U.S., Inc. Address: 630 Plaza Drive Suite 100 City: Highlands Ranch State: CO, Zip: 80129-2377 Phone: 303-710-7537 (Tel) Email: Alison.Schaffer@arcadis.com Project Name: Chevron - Jal Land Farm Soils Site: Sal Landfarm		Sampler: J. Steinmann Lab PM: Kudchadkar, Sachin G E-Mail: Sachin.Kudchadkar@Eurofins.com Phone: 619 851 8792		Carrier Tracking No(s): COC No: 600-78203-21039.1 Page: 1 of 1 Job #:																																			
Due Date Requested: 8/6/20 TAT Requested (days): 5 PO #: 8012538 WO #: 8012538 Project #: 8012538 SSOW#:		Analysis Requested <table border="1"> <tr> <th>Analysis Requested</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>8260B - Volatiles</th> <th>8720C - Semivolatiles/ 8081 Pesticides/ 8082 PCB</th> <th>8680 - Perchlorate-Denver - soil jar 4 oz</th> <th>8330B - Denver - soil jar 4 oz</th> <th>PGC - Denver - plastic 16 oz jar</th> <th>8270D - AgChem - Pensacola - soil jar 4 oz</th> <th>2540C - Caled - Local Method/ Moisture/ pH 9045</th> <th>8015B - GRO</th> <th>8015 - DRO/ORO</th> <th>GA-01 - R-ra - Rad 226/228 - St Louis - 2 plastic jars 16</th> <th>9066 - Phenolics/ 9012 Cyanide</th> <th>300 - Nitrate, Chloride, Sulfate, Fluoride</th> <th>5020/7471 - St Louis - soil jar 4 oz</th> <th>Total Number of containers</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				Analysis Requested	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Volatiles	8720C - Semivolatiles/ 8081 Pesticides/ 8082 PCB	8680 - Perchlorate-Denver - soil jar 4 oz	8330B - Denver - soil jar 4 oz	PGC - Denver - plastic 16 oz jar	8270D - AgChem - Pensacola - soil jar 4 oz	2540C - Caled - Local Method/ Moisture/ pH 9045	8015B - GRO	8015 - DRO/ORO	GA-01 - R-ra - Rad 226/228 - St Louis - 2 plastic jars 16	9066 - Phenolics/ 9012 Cyanide	300 - Nitrate, Chloride, Sulfate, Fluoride	5020/7471 - St Louis - soil jar 4 oz	Total Number of containers																	
Analysis Requested	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Volatiles	8720C - Semivolatiles/ 8081 Pesticides/ 8082 PCB	8680 - Perchlorate-Denver - soil jar 4 oz	8330B - Denver - soil jar 4 oz	PGC - Denver - plastic 16 oz jar	8270D - AgChem - Pensacola - soil jar 4 oz	2540C - Caled - Local Method/ Moisture/ pH 9045	8015B - GRO	8015 - DRO/ORO	GA-01 - R-ra - Rad 226/228 - St Louis - 2 plastic jars 16	9066 - Phenolics/ 9012 Cyanide	300 - Nitrate, Chloride, Sulfate, Fluoride	5020/7471 - St Louis - soil jar 4 oz	Total Number of containers																							
Sample Identification Cell 17 - Square 197-S-2-3-200806 Cell 17 - Square 152-S-2-3-200806 Cell 17 - Square 92-S-2-3-200806 Temp Blank 8/6/20		Sample Date 8/6/20 8/6/20 8/6/20 8/6/20	Sample Time 1047 1130 1227 —	Sample Type (C=Comp, G=grab) G G G —	Matrix (W=water, S=solid, Q=rest of soil, BT=Tissue, A=Air) Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	Preservation Codes: 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: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - YSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)																																	
Special Instructions/Note:  600-209485 Chain of Custody		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months																																					
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:																																					
Empty Kit Relinquished by: Joan Relinquished by: Joan Relinquished by: Joan Relinquished by: Joan Custody Seals Intact: Yes ☐ No ☐		Date: 8/6/20 Date/Time: 1100 Date/Time: 8/7/20 Date/Time: 920 Date/Time: 670 Company: ARCADIS Company: ARCADIS Company: ARCADIS Company: ARCADIS Company: ARCADIS Cooler Temperature(s) °C and Other Remarks:																																					

Ver-01/16/2010

Loc: 600

209485

Eurofins TestAmerica Houston

Environment Testing
TestAmerica

Sample Receipt Checklist

20 AUG 7 3:20

JOB NUMBER: _____

Date/Time Received: _____

CLIENT: _____

UNPACKED BY: _____

CARRIER/DRIVER: _____

Custody Seal Present: ☒ YES ☐ NO

Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
3401	Y / N	Y / N	3.1	680	+0.1	3.2
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				8/7/20
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒ YES ☐ NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED:

☒ NO☐ YESBase samples are > pH 12: ☐ YES ☐ NO

Acid preserved are < pH 2:

☐ YES☐ NOTX1005 samples frozen upon receipt: ☐ YES

DATE & TIME PUT IN FREEZER: _____

pH paper Lot # _____

VOA headspace acceptable (5-6mm): ☐ YES ☐ NO☒ NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

☒ YES☐ NO

COMMENTS:

8/7/20

Chain of Custody Record



Environment Testing
America

[illegible]

Eurofins TestAmerica, Houston
3310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record



Environment Testing
America

[illegible]

Chain of Custody Record



Environment Testing
America

[illegible]

Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

 eurofins

**Environment Testing
America**

[illegible]

Not Lift Using This

SHIPPING DEPT TESTAMERICA HOUSTON LAB 6310 ROTHWAY ST. HOUSTON, TX 77040 UNITED STATES US	ACTWGT: 1.00 LB MAN CAD: 085022B/CAFE3313 BILL RECIPIENT

TO SHIPPING/RECEIVING
TESTAMERICA LABORATORIES, INC.
3355 MCLEMORE DRIVE
PENSACOLA FL 32514
(850) 474-1001
PO: YES

REF: 6600-78535

AW 6.50C
IR7

159469-434 RIT2 EXP 04/21

FedEx Express

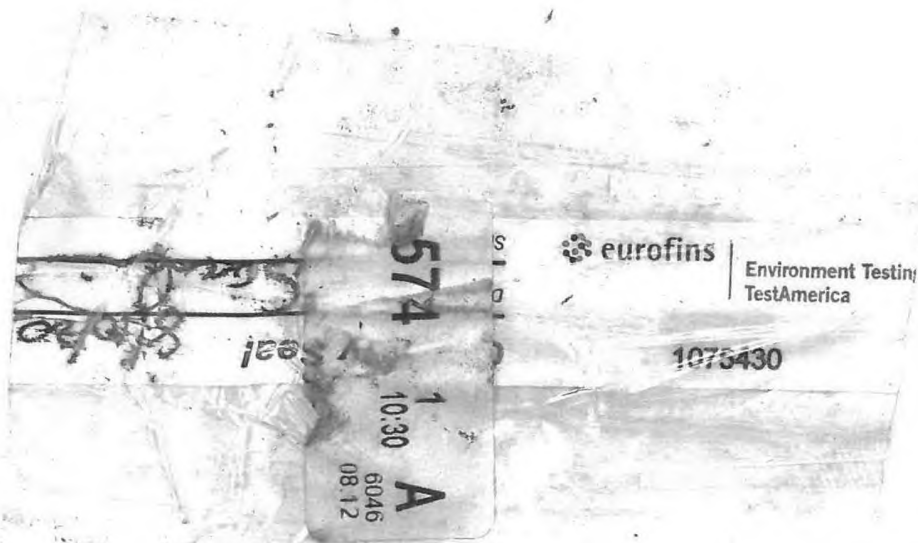
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TRK# 1684 2643 6046
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TUE - 11 AUG 10:30A
PRIORITY OVERNIGHT

XH PNSA

32514
FL-US BFM



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-209485-1

Login Number: 209485

List Source: Eurofins TestAmerica, Houston

List Number: 1

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	3.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-209485-1

Login Number: 209485

List Number: 2

Creator: Schade, Daniel B

List Source: Eurofins TestAmerica, Denver

List Creation: 08/11/20 02:31 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.	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").	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: 600-209485-1

Login Number: 209485

List Number: 3

Creator: Whitley, Adrian

List Source: Eurofins TestAmerica, Pensacola

List Creation: 08/12/20 05:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1075430
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.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	6.5°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: 600-209485-1

Login Number: 209485

List Number: 4

Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/12/20 05:12 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	



Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-209486-1

Client Project/Site: Chevron - Jal Land Farm Soils

For:

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

Attn: Alison Schaffer

Authorized for release by:
9/21/2020 4:27:04 PM

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

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-209486-1

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Case Narrative

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

Job ID: 600-209486-1

Job ID: 600-209486-1

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative 600-209486-1

Comments

No additional comments.

Receipt

The samples were received on 8/7/2020 9:20 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0° C.

GC/MS VOA

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 600-300707 recovered outside control limits for the following analytes: Bromomethane.

Method 8260B: The method blank for analytical batch 600-300707 contained Chloroform 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.

GC/MS Semi VOA

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-500496 and analytical batch 400-500677 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301300 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301300/3).

Method 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 600-300979 and analytical batch 600-301300 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

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

GC VOA

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

GC Semi VOA

Methods 8081A, 8081B: The continuing calibration verification (CCV) associated with batch 600-300913 recovered above the upper control limit for 4,4-DDD(25.2%), 4,4-DDE(21.2%), and 4,4-DDT(17.7%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 600-300913/5).

Method 8082: The surrogate recovery for the blank associated with preparation batch 600-300862 and analytical batch 600-300977 was outside the upper control limits.

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

RAD

Methods 901.1, GA-01-R: Gamma Prep Batch 160-479639

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

Case Narrative

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

Job ID: 600-209486-1

Job ID: 600-209486-1 (Continued)**Laboratory: Eurofins TestAmerica, Houston (Continued)**

Pb-210	Po-210
Pb-210	Bi-210
Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

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.

CELL18-SQUARE176-S-2-3-200806 (600-209486-1), CELL18-SQUARE154-S-2-3-200806 (600-209486-2), CELL19-SQUARE62-S-2-3-200806 (600-209486-3) and (600-209486-E-1-C DU)

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

Metals

Method 6020: analytical batch 160-479582

The internal standard was outside QC limits in the CCV and/or the CCB. All analytes were within acceptable limits, showing that there was no bias. Original results will be reported. (CCB 160-479582/125), (CCB 160-479582/138), (CCV 160-479582/124), (CCV 160-479582/137) and (CCVL 160-479582/136)

Method 6020: preparation batch 160-479336 and analytical batch 160-479582

The following samples were diluted due to the abundance of non-target analytes: CELL18-SQUARE176-S-2-3-200806 (600-209486-1), CELL18-SQUARE154-S-2-3-200806 (600-209486-2) and CELL19-SQUARE62-S-2-3-200806 (600-209486-3). Elevated reporting limits (RLs) are provided.

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-479336 and analytical batch 160-479582 were outside control limits for Barium and Antimony. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (600-209483-C-1-B MS ^20) and (600-209483-C-1-C MSD ^20)

Method 6020: preparation batch 160-479336 and analytical batch 160-481698

The following sample(s) was diluted due to the nature of the sample matrix. Samples when run at a lesser dilution caused internal standard failure. : CELL18-SQUARE176-S-2-3-200806 (600-209486-1), CELL18-SQUARE154-S-2-3-200806 (600-209486-2) and CELL19-SQUARE62-S-2-3-200806 (600-209486-3). Elevated reporting limits (RLs) are provided.

Method 6020: analytical batch 160-479960

The internal standard was outside QC limits in the CCV/CCB. All analytes were within acceptable limits, showing that there was no bias, with an exception of one CCV being outside the upper range in Beryllium. Only the MB was associated with this outage, and was within

Case Narrative

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

Job ID: 600-209486-1

Job ID: 600-209486-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

QC limits. Original results will be reported. (CCB 160-479960/76), (CCB 160-479960/89), (CCV 160-479960/75) and (CCV 160-479960/88)

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

Methods 420.4, 9066: The method blank for preparation batch 600-301626 and analytical batch 600-301633 contained Phenols, Total 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.

Industrial Hygiene

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

Organic Prep

Methods Increment, prep: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client/PM request, the subsampling procedure was not performed on these samples.

CELL18-SQUARE176-S-2-3-200806 (600-209486-1), CELL18-SQUARE154-S-2-3-200806 (600-209486-2) and CELL19-SQUARE62-S-2-3-200806 (600-209486-3)

In preparation batch 280-505294 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: CELL18-SQUARE176-S-2-3-200806 (600-209486-1), CELL18-SQUARE154-S-2-3-200806 (600-209486-2) and CELL19-SQUARE62-S-2-3-200806 (600-209486-3). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet.

In preparation batch 280-505294 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B

Method PFC leach: The following samples were full of rocks and gravel. Aliquoting 10g of soil material was difficult.

CELL18-SQUARE176-S-2-3-200806 (600-209486-1), CELL18-SQUARE154-S-2-3-200806 (600-209486-2) and CELL19-SQUARE62-S-2-3-200806 (600-209486-3)

preparation batch 280-505864

PFC_Leach / PFC

Method PFC leach: The following samples required 2mL of 2.4M HCl to bring the pH below 7. CELL18-SQUARE154-S-2-3-200806 (600-209486-2)

preparation batch 280-505864

PFC_Leach / PFC

Method 3546: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: CELL18-SQUARE176-S-2-3-200806 (600-209486-1), CELL18-SQUARE154-S-2-3-200806 (600-209486-2) and CELL19-SQUARE62-S-2-3-200806 (600-209486-3). The reporting limits (RLs) have been adjusted proportionately.

Case Narrative

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

Job ID: 600-209486-1

Job ID: 600-209486-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

Method 3546: The following sample required a sulfuric acid clean-up, via EPA Method 3665A, to reduce matrix interferences:
CELL18-SQUARE154-S-2-3-200806 (600-209486-2).

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

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Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209486-1

Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
8270D	Pesticides by GC/MS	SW846	TAL PEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
8081A	Organochlorine Pesticides (GC)	SW846	TAL HOU
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL HOU
2540 C-1997	Total Dissolved Solids (Dried at 180 °C)	SM	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
9012B	Cyanide, Total and/or Amenable	SW846	TAL HOU
9045D	pH	SW846	TAL HOU
9066	Phenolics (Colorimetric, 4-AAP with Distillation)	SW846	TAL HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
3050B	Preparation, Metals	SW846	TAL SL
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
3546	Microwave Extraction	SW846	TAL PEN
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471B	Mercury in Solid or Semi-Solid Waste (Manual Cold Vapor Technique)/Preparation	SW846	TAL HOU
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU
Distill/Phenol	Distillation, Phenolics	None	TAL HOU
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"

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

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.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Houston

Sample Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209486-1

Project/Site: Chevron - Jal Land Farm Soils

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Solid	08/06/20 14:35	08/07/20 09:20	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Solid	08/06/20 15:05	08/07/20 09:20	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Solid	08/06/20 15:39	08/07/20 09:20	

Client Sample Results

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

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE176-S-2-3-200806

Lab Sample ID: 600-209486-1

Date Collected: 08/06/20 14:35

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 85.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.93	U	11.6	1.93	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Vinyl chloride	1.04	U	11.6	1.04	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Bromomethane	0.964	U *	11.6	0.964	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Trichlorofluoromethane	0.766	U	11.6	0.766	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Acrolein	7.23	U	29.0	7.23	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
1,1-Dichloroethene	1.42	U	5.80	1.42	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
trans-1,2-Dichloroethene	1.32	U	5.80	1.32	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Methyl tert-butyl ether	2.12	U	5.80	2.12	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Methylene Chloride	2.54	U	11.6	2.54	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Acrylonitrile	6.76	U	58.0	6.76	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
cis-1,2-Dichloroethene	0.964	U	5.80	0.964	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Carbon tetrachloride	1.31	U	5.80	1.31	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Benzene	0.731	U	5.80	0.731	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
1,2-Dichloroethane	1.04	U	5.80	1.04	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Trichloroethene	1.63	U	5.80	1.63	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
1,1,1-Trichloroethane	0.859	U	5.80	0.859	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
1,1-Dichloroethane	1.01	U	5.80	1.01	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
1,2-Dichloropropane	0.824	U	5.80	0.824	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
1,4-Dioxane	72.1	U	580	72.1	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Chloroform	1.00	J b	11.6	0.766	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Bromodichloromethane	0.766	U	5.80	0.766	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
1,1-Dichloropropene	0.755	U	5.80	0.755	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
cis-1,3-Dichloropropene	0.627	U	5.80	0.627	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Toluene	1.60	U	5.80	1.60	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
trans-1,3-Dichloropropene	0.673	U	5.80	0.673	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
1,1,2-Trichloroethane	0.847	U	5.80	0.847	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Tetrachloroethene	0.824	U	5.80	0.824	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
1,3-Dichloropropene, Total	0.673	U	5.80	0.673	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
1,2-Dibromoethane	1.18	U	5.80	1.18	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Monochlorobenzene	1.11	U	5.80	1.11	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Ethylbenzene	1.18	U	5.80	1.18	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Xylenes, Total	1.31	U	5.80	1.31	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Styrene	0.824	U	5.80	0.824	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Tribromomethane	1.59	U	5.80	1.59	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
1,1,2,2-Tetrachloroethane	1.01	U	5.80	1.01	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
1,4-Dichlorobenzene	0.766	U	5.80	0.766	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
1,2-Dichlorobenzene	0.929	U	5.80	0.929	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
1,2,4-Trichlorobenzene	2.29	U	5.80	2.29	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1
Dichlorodifluoromethane	1.79	U	5.80	1.79	ug/Kg	☆	08/08/20 10:45	08/08/20 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		61 - 130	08/08/20 10:45	08/08/20 14:03	1
Dibromofluoromethane	84		68 - 140	08/08/20 10:45	08/08/20 14:03	1
Toluene-d8 (Surr)	98		50 - 130	08/08/20 10:45	08/08/20 14:03	1
4-Bromofluorobenzene	105		57 - 140	08/08/20 10:45	08/08/20 14:03	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.88	U	38.8	4.88	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
N-Nitrosodiethylamine	8.36	U	38.8	8.36	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE176-S-2-3-200806

Lab Sample ID: 600-209486-1

Date Collected: 08/06/20 14:35

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 85.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	1.92	U	38.8	1.92	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Hexachloroethane	2.69	U	38.8	2.69	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
N-Nitrosopyrrolidine	5.44	U	38.8	5.44	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Nitrobenzene	3.45	U	38.8	3.45	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Isophorone	1.16	U	38.8	1.16	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
2,4-Dichlorophenol	4.51	U	38.8	4.51	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Naphthalene	1.57	U	38.8	1.57	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Hexachlorobutadiene	2.24	U	38.8	2.24	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
N-Nitrosodi-n-butylamine	19.4	U	38.8	19.4	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
2-Methylnaphthalene	3.19	U	38.8	3.19	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
1-Methylnaphthalene	1.83	U	38.8	1.83	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
1,2,4,5-Tetrachlorobenzene	7.86	U	38.8	7.86	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Hexachlorocyclopentadiene	5.37	U	38.8	5.37	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
2,4,6-Trichlorophenol	3.12	U	38.8	3.12	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
2,4,5-Trichlorophenol	11.7	U	38.8	11.7	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Dimethyl phthalate	52.9	J	77.7	5.70	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Acenaphthylene	1.16	U	38.8	1.16	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
2,6-Dinitrotoluene	3.44	U	38.8	3.44	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Acenaphthene	1.68	U	38.8	1.68	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Dinitrophenols	5.50	U	116	5.50	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Pentachlorobenzene	4.67	U	38.8	4.67	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
2,4-Dinitrotoluene	4.20	U	38.8	4.20	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Diethyl phthalate	9.82	U	77.7	9.82	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Fluorene	2.75	U	38.8	2.75	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Dinitro-o-cresol	5.80	U	198	5.80	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
N-Nitrosodiphenylamine	2.20	U	38.8	2.20	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Diphenylhydrazine, 1,2-	1.89	U	38.8	1.89	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Hexachlorobenzene	1.77	U	38.8	1.77	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Atrazine	5.85	U	38.8	5.85	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Pentachlorophenol	4.66	U	195	4.66	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Phenanthrene	5.77	U	38.8	5.77	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Anthracene	1.49	U	38.8	1.49	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Dibutylphthalate	3.02	U	77.7	3.02	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Fluoranthene	3.62	U	38.8	3.62	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Benzidine	10.5	U	384	10.5	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Pyrene	2.13	U	38.8	2.13	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Dichlorobenzidine, 3,3'-	11.8	U	38.8	11.8	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Benzo[a]anthracene	1.61	U	38.8	1.61	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Di (2-ethylhexyl)phthalate	19.0	J	38.8	6.25	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Chrysene	1.19	U	38.8	1.19	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Benzo[b]fluoranthene	2.00	U	38.8	2.00	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Benzo[k]fluoranthene	1.74	U	38.8	1.74	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Benzo[a]pyrene	1.88	U	38.8	1.88	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Indeno[1,2,3-cd]pyrene	4.08	U	38.8	4.08	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Dibenz(a,h)anthracene	4.23	U	38.8	4.23	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Benzo[g,h,i]perylene	5.91	U	38.8	5.91	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
bis (2-chloroisopropyl) ether	10.3	U	38.8	10.3	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1
Thiophene, tetrahydro-, 1,1-dioxide	19.4	U	38.8	19.4	ug/Kg	☆	08/12/20 11:16	08/17/20 13:13	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE176-S-2-3-200806

Lab Sample ID: 600-209486-1

Date Collected: 08/06/20 14:35

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 85.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	48		10 - 148	08/12/20 11:16	08/17/20 13:13	1
2-Fluorobiphenyl	86		38 - 130	08/12/20 11:16	08/17/20 13:13	1
2-Fluorophenol	79		25 - 132	08/12/20 11:16	08/17/20 13:13	1
Nitrobenzene-d5	84		10 - 155	08/12/20 11:16	08/17/20 13:13	1
Terphenyl-d14	103		53 - 134	08/12/20 11:16	08/17/20 13:13	1
Phenol-d5 (Surr)	75		27 - 130	08/12/20 11:16	08/17/20 13:13	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	14.0	U	77.0	14.0	ug/Kg	☼	08/17/20 09:48	08/18/20 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	64		30 - 164				08/17/20 09:48	08/18/20 16:29	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.719	U	1.23	0.719	mg/Kg	☼	08/08/20 07:14	08/08/20 12:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	82		70 - 130				08/08/20 07:14	08/08/20 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	9.79	U	28.6	9.79	mg/Kg	☼	08/10/20 15:56	08/13/20 16:57	1
C28-C36	28.6	U	28.6	28.6	mg/Kg	☼	08/10/20 15:56	08/13/20 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	98		60 - 140				08/10/20 15:56	08/13/20 16:57	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.52	U	1.97	1.52	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Hexachlorocyclohexane, beta-	1.18	U	1.97	1.18	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Hexachlorocyclohexane, delta-	0.987	U	1.97	0.987	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Hexachlorocyclohexane, alpha-	1.16	U	1.97	1.16	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Hexachlorocyclohexane, gamma-	1.08	U	1.97	1.08	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Chlordane (technical)	27.2	U	87.1	27.2	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
DDT	2.15	U	3.83	2.15	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Dieldrin	1.61	U	3.83	1.61	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Endosulfan I	1.16	U	1.97	1.16	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Endosulfan II	1.75	U	3.83	1.75	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Endosulfan sulfate	1.95	U	3.83	1.95	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Endrin	1.78	U	3.83	1.78	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Endrin aldehyde	1.81	U	3.83	1.81	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Heptachlor	1.08	U	1.97	1.08	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Heptachlor epoxide	1.36	U	1.97	1.36	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Toxaphene	84.9	U	197	84.9	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	90		47 - 150				08/11/20 08:51	08/11/20 23:19	1
Tetrachloro-m-xylene	90		50 - 143				08/11/20 08:51	08/11/20 23:19	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE176-S-2-3-200806

Lab Sample ID: 600-209486-1

Date Collected: 08/06/20 14:35

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 85.6

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00186	U	0.0194	0.00186	mg/Kg	☆	08/11/20 08:51	08/12/20 16:57	1
PCB-1221	0.0100	U	0.0194	0.0100	mg/Kg	☆	08/11/20 08:51	08/12/20 16:57	1
PCB-1232	0.00778	U	0.0194	0.00778	mg/Kg	☆	08/11/20 08:51	08/12/20 16:57	1
PCB-1242	0.00144	U	0.0194	0.00144	mg/Kg	☆	08/11/20 08:51	08/12/20 16:57	1
PCB-1248	0.00289	U	0.0194	0.00289	mg/Kg	☆	08/11/20 08:51	08/12/20 16:57	1
PCB-1254	0.00257	U	0.0194	0.00257	mg/Kg	☆	08/11/20 08:51	08/12/20 16:57	1
PCB-1260	0.0157	U	0.0194	0.0157	mg/Kg	☆	08/11/20 08:51	08/12/20 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		10 - 150	08/11/20 08:51	08/12/20 16:57	1
DCB Decachlorobiphenyl	111		10 - 150	08/11/20 08:51	08/12/20 16:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.72	J	4.67	0.624	mg/Kg	☆		08/11/20 20:49	1
Nitrate as N	6.69		2.34	0.293	mg/Kg	☆		08/11/20 20:49	1
Fluoride	9.69		2.34	0.702	mg/Kg	☆		08/11/20 20:49	1
Nitrite as N	0.347	U	2.34	0.347	mg/Kg	☆		08/11/20 20:49	1
Sulfate	62.7		5.84	1.12	mg/Kg	☆		08/11/20 20:49	1

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0223	U	0.0984	0.0223	mg/Kg		08/12/20 15:04	08/13/20 20:54	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0423	U	0.197	0.0423	mg/Kg		08/12/20 15:04	08/13/20 20:54	1
2,4,6-Trinitrotoluene	0.0302	U	0.0984	0.0302	mg/Kg		08/12/20 15:04	08/13/20 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	08/12/20 15:04	08/13/20 20:54	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0928	U	0.563	0.0928	ug/Kg	☆	08/12/20 11:00	08/20/20 15:13	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.245	U	0.851	0.245	ug/Kg	☆	08/17/20 14:49	08/24/20 13:23	1
Perfluorohexanesulfonic acid (PFHxS)	0.298	U	0.851	0.298	ug/Kg	☆	08/17/20 14:49	08/24/20 13:23	1
Perfluorooctanesulfonic acid (PFOS)	0.149	U	0.851	0.149	ug/Kg	☆	08/17/20 14:49	08/24/20 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	08/17/20 14:49	08/24/20 13:23	1
13C8 PFOS	95		70 - 130	08/17/20 14:49	08/24/20 13:23	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.825	U	2.20	0.825	mg/Kg	☆	08/13/20 11:03	08/14/20 19:58	20
Arsenic	4.40	U	11.0	4.40	mg/Kg	☆	08/13/20 11:03	08/14/20 19:58	20
Barium	893		22.0	5.50	mg/Kg	☆	08/13/20 11:03	08/14/20 19:58	20
Beryllium	1.10	U	2.75	1.10	mg/Kg	☆	08/13/20 11:03	09/04/20 17:23	50
Cadmium	0.264	U	0.550	0.264	mg/Kg	☆	08/13/20 11:03	08/14/20 19:58	20
Chromium	5.60	J	11.0	4.95	mg/Kg	☆	08/13/20 11:03	08/14/20 19:58	20

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE176-S-2-3-200806

Lab Sample ID: 600-209486-1

Date Collected: 08/06/20 14:35

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 85.6

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4970		132	66.0	mg/Kg	☆	08/13/20 11:03	08/14/20 19:58	20
Copper	4.40	U	11.0	4.40	mg/Kg	☆	08/13/20 11:03	08/14/20 19:58	20
Manganese	34.6		5.50	2.20	mg/Kg	☆	08/13/20 11:03	08/14/20 19:58	20
Lead	3.44	U	8.25	3.44	mg/Kg	☆	08/13/20 11:03	09/04/20 17:23	50
Antimony	2.20	U	5.50	2.20	mg/Kg	☆	08/13/20 11:03	08/14/20 19:58	20
Selenium	3.52	U	5.50	3.52	mg/Kg	☆	08/13/20 11:03	08/14/20 19:58	20
Thallium	5.50	U	13.8	5.50	mg/Kg	☆	08/13/20 11:03	09/04/20 17:23	50
Zinc	22.0	U	55.0	22.0	mg/Kg	☆	08/13/20 11:03	08/14/20 19:58	20
Uranium	1.10	U	2.75	1.10	mg/Kg	☆	08/13/20 11:03	09/04/20 17:23	50

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00945	J	0.0195	0.00411	mg/Kg	☆	09/02/20 13:16	09/03/20 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.4		1.0	1.0	%			08/11/20 08:50	1
Percent Solids	85.6		1.0	1.0	%			08/11/20 08:50	1
Cyanide, Total	0.0196	U	0.130	0.0196	mg/Kg	☆	08/19/20 16:06	08/19/20 22:20	1
pH	8.9	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	1.08	b	0.583	0.489	mg/Kg	☆	08/19/20 16:29	08/19/20 20:44	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	135		10.0	10.0	mg/L			08/17/20 11:57	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	0.763		0.137	0.158	1.00	0.0967	pCi/g	08/17/20 17:22	09/08/20 13:57	1
Radium-228	0.391		0.111	0.118		0.0687	pCi/g	08/17/20 17:22	09/08/20 13:57	1
Combined Radium 226 + 228	1.15		0.176	0.197		0.0967	pCi/g	08/17/20 17:22	09/08/20 13:57	1

Client Sample ID: CELL18-SQUARE154-S-2-3-200806

Lab Sample ID: 600-209486-2

Date Collected: 08/06/20 15:05

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 79.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.20	U	13.3	2.20	ug/Kg	☆	08/08/20 10:45	08/08/20 14:26	1
Vinyl chloride	1.19	U	13.3	1.19	ug/Kg	☆	08/08/20 10:45	08/08/20 14:26	1
Bromomethane	1.10	U *	13.3	1.10	ug/Kg	☆	08/08/20 10:45	08/08/20 14:26	1
Trichlorofluoromethane	0.875	U	13.3	0.875	ug/Kg	☆	08/08/20 10:45	08/08/20 14:26	1
Acrolein	8.26	U	33.1	8.26	ug/Kg	☆	08/08/20 10:45	08/08/20 14:26	1
1,1-Dichloroethene	1.62	U	6.63	1.62	ug/Kg	☆	08/08/20 10:45	08/08/20 14:26	1
trans-1,2-Dichloroethene	1.51	U	6.63	1.51	ug/Kg	☆	08/08/20 10:45	08/08/20 14:26	1
Methyl tert-butyl ether	2.42	U	6.63	2.42	ug/Kg	☆	08/08/20 10:45	08/08/20 14:26	1
Methylene Chloride	2.90	U	13.3	2.90	ug/Kg	☆	08/08/20 10:45	08/08/20 14:26	1
Acrylonitrile	7.71	U	66.3	7.71	ug/Kg	☆	08/08/20 10:45	08/08/20 14:26	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE154-S-2-3-200806

Lab Sample ID: 600-209486-2

Date Collected: 08/06/20 15:05

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.10	U	6.63	1.10	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
Carbon tetrachloride	1.50	U	6.63	1.50	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
Benzene	0.835	U	6.63	0.835	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
1,2-Dichloroethane	1.19	U	6.63	1.19	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
Trichloroethene	1.86	U	6.63	1.86	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
1,1,1-Trichloroethane	0.981	U	6.63	0.981	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
1,1-Dichloroethane	1.15	U	6.63	1.15	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
1,2-Dichloropropane	0.941	U	6.63	0.941	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
1,4-Dioxane	82.2	U	663	82.2	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
Chloroform	1.18	J b	13.3	0.875	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
Bromodichloromethane	0.875	U	6.63	0.875	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
1,1-Dichloropropene	0.861	U	6.63	0.861	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
cis-1,3-Dichloropropene	0.716	U	6.63	0.716	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
Toluene	1.83	U	6.63	1.83	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
trans-1,3-Dichloropropene	0.769	U	6.63	0.769	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
1,1,2-Trichloroethane	0.967	U	6.63	0.967	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
Tetrachloroethene	0.941	U	6.63	0.941	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
1,3-Dichloropropene, Total	0.769	U	6.63	0.769	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
1,2-Dibromoethane	1.35	U	6.63	1.35	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
Monochlorobenzene	1.27	U	6.63	1.27	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
Ethylbenzene	1.35	U	6.63	1.35	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
Xylenes, Total	1.50	U	6.63	1.50	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
Styrene	0.941	U	6.63	0.941	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
Tribromomethane	1.82	U	6.63	1.82	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
1,1,2,2-Tetrachloroethane	1.15	U	6.63	1.15	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
1,4-Dichlorobenzene	0.875	U	6.63	0.875	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
1,2-Dichlorobenzene	1.06	U	6.63	1.06	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
1,2,4-Trichlorobenzene	2.61	U	6.63	2.61	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
Dichlorodifluoromethane	2.04	U	6.63	2.04	ug/Kg	✱	08/08/20 10:45	08/08/20 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		61 - 130				08/08/20 10:45	08/08/20 14:26	1
Dibromofluoromethane	86		68 - 140				08/08/20 10:45	08/08/20 14:26	1
Toluene-d8 (Surr)	97		50 - 130				08/08/20 10:45	08/08/20 14:26	1
4-Bromofluorobenzene	107		57 - 140				08/08/20 10:45	08/08/20 14:26	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	5.26	U	41.8	5.26	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
N-Nitrosodiethylamine	9.02	U	41.8	9.02	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Bis(2-chloroethyl)ether	2.07	U	41.8	2.07	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Hexachloroethane	2.90	U	41.8	2.90	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
N-Nitrosopyrrolidine	5.87	U	41.8	5.87	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Nitrobenzene	3.72	U	41.8	3.72	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Isophorone	1.26	U	41.8	1.26	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
2,4-Dichlorophenol	4.86	U	41.8	4.86	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Naphthalene	1.70	U	41.8	1.70	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Hexachlorobutadiene	2.41	U	41.8	2.41	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
N-Nitrosodi-n-butylamine	20.9	U	41.8	20.9	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
2-Methylnaphthalene	3.44	U	41.8	3.44	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE154-S-2-3-200806

Lab Sample ID: 600-209486-2

Date Collected: 08/06/20 15:05

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 79.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	1.97	U	41.8	1.97	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
1,2,4,5-Tetrachlorobenzene	8.48	U	41.8	8.48	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Hexachlorocyclopentadiene	5.79	U	41.8	5.79	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
2,4,6-Trichlorophenol	3.37	U	41.8	3.37	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
2,4,5-Trichlorophenol	12.6	U	41.8	12.6	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Dimethyl phthalate	6.14	U	83.8	6.14	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Acenaphthylene	1.26	U	41.8	1.26	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
2,6-Dinitrotoluene	3.71	U	41.8	3.71	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Acenaphthene	1.81	U	41.8	1.81	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Dinitrophenols	5.93	U	126	5.93	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Pentachlorobenzene	5.04	U	41.8	5.04	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
2,4-Dinitrotoluene	4.54	U	41.8	4.54	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Diethyl phthalate	10.6	U	83.8	10.6	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Fluorene	2.97	U	41.8	2.97	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Dinitro-o-cresol	6.26	U	214	6.26	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
N-Nitrosodiphenylamine	2.37	U	41.8	2.37	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Diphenylhydrazine, 1,2-	2.04	U	41.8	2.04	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Hexachlorobenzene	1.91	U	41.8	1.91	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Atrazine	6.31	U	41.8	6.31	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Pentachlorophenol	5.03	U	210	5.03	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Phenanthrene	6.22	U	41.8	6.22	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Anthracene	1.61	U	41.8	1.61	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Dibutylphthalate	12.3	J	83.8	3.25	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Fluoranthene	3.91	U	41.8	3.91	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Benzidine	11.3	U	415	11.3	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Pyrene	2.30	U	41.8	2.30	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Dichlorobenzidine, 3,3'-	12.8	U	41.8	12.8	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Benzo[a]anthracene	1.73	U	41.8	1.73	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Di (2-ethylhexyl)phthalate	26.9	J	41.8	6.75	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Chrysene	1.28	U	41.8	1.28	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Benzo[b]fluoranthene	2.16	U	41.8	2.16	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Benzo[k]fluoranthene	1.87	U	41.8	1.87	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Benzo[a]pyrene	2.02	U	41.8	2.02	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Indeno[1,2,3-cd]pyrene	4.40	U	41.8	4.40	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Dibenz(a,h)anthracene	4.56	U	41.8	4.56	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Benzo[g,h,i]perylene	6.37	U	41.8	6.37	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
bis (2-chloroisopropyl) ether	11.1	U	41.8	11.1	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1
Thiophene, tetrahydro-, 1,1-dioxide	20.9	U	41.8	20.9	ug/Kg	✱	08/12/20 11:16	08/17/20 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		10 - 148	08/12/20 11:16	08/17/20 13:37	1
2-Fluorobiphenyl	63		38 - 130	08/12/20 11:16	08/17/20 13:37	1
2-Fluorophenol	55		25 - 132	08/12/20 11:16	08/17/20 13:37	1
Nitrobenzene-d5	60		10 - 155	08/12/20 11:16	08/17/20 13:37	1
Terphenyl-d14	103		53 - 134	08/12/20 11:16	08/17/20 13:37	1
Phenol-d5 (Surr)	52		27 - 130	08/12/20 11:16	08/17/20 13:37	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	15.1	U	83.0	15.1	ug/Kg	✱	08/17/20 09:48	08/18/20 16:54	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE154-S-2-3-200806

Lab Sample ID: 600-209486-2

Date Collected: 08/06/20 15:05

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 79.1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	82		30 - 164				08/17/20 09:48	08/18/20 16:54	1
Method: 8015B - Gasoline Range Organics - (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.784	U	1.34	0.784	mg/Kg	☼	08/08/20 07:14	08/08/20 13:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		70 - 130				08/08/20 07:14	08/08/20 13:06	1
Method: 8015B - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.23	U	9.44	3.23	mg/Kg	☼	08/10/20 15:56	08/13/20 18:04	1
C28-C36	56.5		9.44	9.44	mg/Kg	☼	08/10/20 15:56	08/13/20 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	95		60 - 140				08/10/20 15:56	08/13/20 18:04	1
Method: 8081A - Organochlorine Pesticides (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.65	U	2.15	1.65	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Hexachlorocyclohexane, beta-	1.29	U	2.15	1.29	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Hexachlorocyclohexane, delta-	1.07	U	2.15	1.07	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Hexachlorocyclohexane, alpha-	1.26	U	2.15	1.26	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Hexachlorocyclohexane, gamma-	1.17	U	2.15	1.17	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Chlordane (technical)	29.5	U	94.7	29.5	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
DDT	2.34	U	4.17	2.34	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Dieldrin	1.75	U	4.17	1.75	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Endosulfan I	1.26	U	2.15	1.26	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Endosulfan II	1.91	U	4.17	1.91	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Endosulfan sulfate	2.12	U	4.17	2.12	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Endrin	1.93	U	4.17	1.93	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Endrin aldehyde	1.97	U	4.17	1.97	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Heptachlor	1.17	U	2.15	1.17	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Heptachlor epoxide	1.48	U	2.15	1.48	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Toxaphene	92.3	U	215	92.3	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	53		47 - 150				08/11/20 08:51	08/11/20 23:44	1
Tetrachloro-m-xylene	52		50 - 143				08/11/20 08:51	08/11/20 23:44	1
Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00202	U	0.0211	0.00202	mg/Kg	☼	08/11/20 08:51	08/12/20 17:22	1
PCB-1221	0.0109	U	0.0211	0.0109	mg/Kg	☼	08/11/20 08:51	08/12/20 17:22	1
PCB-1232	0.00846	U	0.0211	0.00846	mg/Kg	☼	08/11/20 08:51	08/12/20 17:22	1
PCB-1242	0.00157	U	0.0211	0.00157	mg/Kg	☼	08/11/20 08:51	08/12/20 17:22	1
PCB-1248	0.00314	U	0.0211	0.00314	mg/Kg	☼	08/11/20 08:51	08/12/20 17:22	1
PCB-1254	0.00279	U	0.0211	0.00279	mg/Kg	☼	08/11/20 08:51	08/12/20 17:22	1
PCB-1260	0.0170	U	0.0211	0.0170	mg/Kg	☼	08/11/20 08:51	08/12/20 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	46		10 - 150				08/11/20 08:51	08/12/20 17:22	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE154-S-2-3-200806

Lab Sample ID: 600-209486-2

Date Collected: 08/06/20 15:05

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 79.1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		10 - 150	08/11/20 08:51	08/12/20 17:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.29	J	5.06	0.675	mg/Kg	✱		08/11/20 21:09	1
Nitrate as N	8.08		2.53	0.317	mg/Kg	✱		08/11/20 21:09	1
Fluoride	7.51		2.53	0.760	mg/Kg	✱		08/11/20 21:09	1
Nitrite as N	0.375	U	2.53	0.375	mg/Kg	✱		08/11/20 21:09	1
Sulfate	60.6		6.32	1.21	mg/Kg	✱		08/11/20 21:09	1

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0226	U	0.0997	0.0226	mg/Kg		08/12/20 15:04	08/13/20 21:17	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.199	0.0429	mg/Kg		08/12/20 15:04	08/13/20 21:17	1
2,4,6-Trinitrotoluene	0.0306	U	0.0997	0.0306	mg/Kg		08/12/20 15:04	08/13/20 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	102		83 - 122	08/12/20 15:04	08/13/20 21:17	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	1.94		0.618	0.102	ug/Kg	✱	08/12/20 11:00	08/20/20 15:18	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.277	U	0.964	0.277	ug/Kg	✱	08/17/20 14:49	08/24/20 13:31	1
Perfluorohexanesulfonic acid (PFHxS)	0.337	U	0.964	0.337	ug/Kg	✱	08/17/20 14:49	08/24/20 13:31	1
Perfluorooctanesulfonic acid (PFOS)	0.169	U	0.964	0.169	ug/Kg	✱	08/17/20 14:49	08/24/20 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	102		57 - 153	08/17/20 14:49	08/24/20 13:31	1
13C8 PFOS	92		70 - 130	08/17/20 14:49	08/24/20 13:31	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.832	U	2.22	0.832	mg/Kg	✱	08/13/20 11:03	08/14/20 20:00	20
Arsenic	4.44	U	11.1	4.44	mg/Kg	✱	08/13/20 11:03	08/14/20 20:00	20
Barium	316		22.2	5.55	mg/Kg	✱	08/13/20 11:03	08/14/20 20:00	20
Beryllium	1.11	U	2.77	1.11	mg/Kg	✱	08/13/20 11:03	09/04/20 17:33	50
Cadmium	0.266	U	0.555	0.266	mg/Kg	✱	08/13/20 11:03	08/14/20 20:00	20
Chromium	4.99	U	11.1	4.99	mg/Kg	✱	08/13/20 11:03	08/14/20 20:00	20
Iron	2320		133	66.6	mg/Kg	✱	08/13/20 11:03	08/14/20 20:00	20
Copper	4.44	U	11.1	4.44	mg/Kg	✱	08/13/20 11:03	08/14/20 20:00	20
Manganese	22.6		5.55	2.22	mg/Kg	✱	08/13/20 11:03	08/14/20 20:00	20
Lead	1.59	J	3.33	1.39	mg/Kg	✱	08/13/20 11:03	08/14/20 20:00	20
Antimony	2.22	U	5.55	2.22	mg/Kg	✱	08/13/20 11:03	08/14/20 20:00	20
Selenium	3.55	U	5.55	3.55	mg/Kg	✱	08/13/20 11:03	08/14/20 20:00	20
Thallium	2.22	U	5.55	2.22	mg/Kg	✱	08/13/20 11:03	08/14/20 20:00	20
Zinc	22.2	U	55.5	22.2	mg/Kg	✱	08/13/20 11:03	08/14/20 20:00	20
Uranium	1.11	U	2.77	1.11	mg/Kg	✱	08/13/20 11:03	09/04/20 17:33	50

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE154-S-2-3-200806

Lab Sample ID: 600-209486-2

Date Collected: 08/06/20 15:05

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 79.1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00424	U	0.0201	0.00424	mg/Kg	☆	09/02/20 13:16	09/03/20 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.9		1.0	1.0	%			08/11/20 08:50	1
Percent Solids	79.1		1.0	1.0	%			08/11/20 08:50	1
Cyanide, Total	0.0218	U	0.145	0.0218	mg/Kg	☆	08/19/20 16:06	08/19/20 22:20	1
pH	8.8	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.530	U	0.632	0.530	mg/Kg	☆	08/19/20 16:29	08/19/20 20:45	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	111		10.0	10.0	mg/L			08/17/20 11:57	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	0.656		0.160	0.174	1.00	0.116	pCi/g	08/17/20 17:22	09/08/20 14:00	1
Radium-228	0.269	U	0.0939	0.0978		0.332	pCi/g	08/17/20 17:22	09/08/20 14:00	1
Combined Radium 226 + 228	0.924		0.186	0.200		0.332	pCi/g	08/17/20 17:22	09/08/20 14:00	1

Client Sample ID: CELL19-SQUARE62-S-2-3-200806

Lab Sample ID: 600-209486-3

Date Collected: 08/06/20 15:39

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 88.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.95	U	11.7	1.95	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
Vinyl chloride	1.06	U	11.7	1.06	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
Bromomethane	0.974	U *	11.7	0.974	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
Trichlorofluoromethane	0.774	U	11.7	0.774	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
Acrolein	7.31	U	29.3	7.31	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
1,1-Dichloroethene	1.43	U	5.87	1.43	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
trans-1,2-Dichloroethene	1.34	U	5.87	1.34	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
Methyl tert-butyl ether	2.15	U	5.87	2.15	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
Methylene Chloride	2.57	U	11.7	2.57	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
Acrylonitrile	6.83	U	58.7	6.83	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
cis-1,2-Dichloroethene	0.974	U	5.87	0.974	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
Carbon tetrachloride	1.33	U	5.87	1.33	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
Benzene	0.739	U	5.87	0.739	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
1,2-Dichloroethane	1.06	U	5.87	1.06	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
Trichloroethene	1.64	U	5.87	1.64	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
1,1,1-Trichloroethane	0.868	U	5.87	0.868	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
1,1-Dichloroethane	1.02	U	5.87	1.02	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
1,2-Dichloropropane	0.833	U	5.87	0.833	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
1,4-Dioxane	72.8	U	587	72.8	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
Chloroform	0.974	J b	11.7	0.774	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
Bromodichloromethane	0.774	U	5.87	0.774	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1
1,1-Dichloropropene	0.763	U	5.87	0.763	ug/Kg	☆	08/08/20 10:45	08/08/20 14:50	1

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Client Sample Results

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

Job ID: 600-209486-1

Client Sample ID: CELL19-SQUARE62-S-2-3-200806

Lab Sample ID: 600-209486-3

Date Collected: 08/06/20 15:39

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.634	U	5.87	0.634	ug/Kg	✱	08/08/20 10:45	08/08/20 14:50	1
Toluene	1.62	U	5.87	1.62	ug/Kg	✱	08/08/20 10:45	08/08/20 14:50	1
trans-1,3-Dichloropropene	0.681	U	5.87	0.681	ug/Kg	✱	08/08/20 10:45	08/08/20 14:50	1
1,1,2-Trichloroethane	0.857	U	5.87	0.857	ug/Kg	✱	08/08/20 10:45	08/08/20 14:50	1
Tetrachloroethene	0.833	U	5.87	0.833	ug/Kg	✱	08/08/20 10:45	08/08/20 14:50	1
1,3-Dichloropropene, Total	0.681	U	5.87	0.681	ug/Kg	✱	08/08/20 10:45	08/08/20 14:50	1
1,2-Dibromoethane	1.20	U	5.87	1.20	ug/Kg	✱	08/08/20 10:45	08/08/20 14:50	1
Monochlorobenzene	1.13	U	5.87	1.13	ug/Kg	✱	08/08/20 10:45	08/08/20 14:50	1
Ethylbenzene	1.20	U	5.87	1.20	ug/Kg	✱	08/08/20 10:45	08/08/20 14:50	1
Xylenes, Total	1.33	U	5.87	1.33	ug/Kg	✱	08/08/20 10:45	08/08/20 14:50	1
Styrene	0.833	U	5.87	0.833	ug/Kg	✱	08/08/20 10:45	08/08/20 14:50	1
Tribromomethane	1.61	U	5.87	1.61	ug/Kg	✱	08/08/20 10:45	08/08/20 14:50	1
1,1,2,2-Tetrachloroethane	1.02	U	5.87	1.02	ug/Kg	✱	08/08/20 10:45	08/08/20 14:50	1
1,4-Dichlorobenzene	0.774	U	5.87	0.774	ug/Kg	✱	08/08/20 10:45	08/08/20 14:50	1
1,2-Dichlorobenzene	0.939	U	5.87	0.939	ug/Kg	✱	08/08/20 10:45	08/08/20 14:50	1
1,2,4-Trichlorobenzene	2.31	U	5.87	2.31	ug/Kg	✱	08/08/20 10:45	08/08/20 14:50	1
Dichlorodifluoromethane	1.81	U	5.87	1.81	ug/Kg	✱	08/08/20 10:45	08/08/20 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		61 - 130	08/08/20 10:45	08/08/20 14:50	1
Dibromofluoromethane	86		68 - 140	08/08/20 10:45	08/08/20 14:50	1
Toluene-d8 (Surr)	93		50 - 130	08/08/20 10:45	08/08/20 14:50	1
4-Bromofluorobenzene	104		57 - 140	08/08/20 10:45	08/08/20 14:50	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.70	U	37.4	4.70	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
N-Nitrosodiethylamine	8.06	U	37.4	8.06	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
Bis(2-chloroethyl)ether	1.85	U	37.4	1.85	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
Hexachloroethane	2.59	U	37.4	2.59	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
N-Nitrosopyrrolidine	5.24	U	37.4	5.24	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
Nitrobenzene	3.32	U	37.4	3.32	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
Isophorone	1.12	U	37.4	1.12	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
2,4-Dichlorophenol	4.34	U	37.4	4.34	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
Naphthalene	1.51	U	37.4	1.51	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
Hexachlorobutadiene	2.15	U	37.4	2.15	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
N-Nitrosodi-n-butylamine	18.7	U	37.4	18.7	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
2-Methylnaphthalene	3.07	U	37.4	3.07	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
1-Methylnaphthalene	1.76	U	37.4	1.76	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
1,2,4,5-Tetrachlorobenzene	7.57	U	37.4	7.57	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
Hexachlorocyclopentadiene	5.17	U	37.4	5.17	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
2,4,6-Trichlorophenol	3.01	U	37.4	3.01	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
2,4,5-Trichlorophenol	11.2	U	37.4	11.2	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
Dimethyl phthalate	5.49	U	74.8	5.49	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
Acenaphthylene	1.12	U	37.4	1.12	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
2,6-Dinitrotoluene	3.31	U	37.4	3.31	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
Acenaphthene	1.62	U	37.4	1.62	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
Dinitrophenols	5.30	U	112	5.30	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
Pentachlorobenzene	4.50	U	37.4	4.50	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1
2,4-Dinitrotoluene	4.05	U	37.4	4.05	ug/Kg	✱	08/12/20 11:16	08/17/20 14:02	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209486-1

Client Sample ID: CELL19-SQUARE62-S-2-3-200806

Lab Sample ID: 600-209486-3

Date Collected: 08/06/20 15:39

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 88.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	9.46	U	74.8	9.46	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Fluorene	2.65	U	37.4	2.65	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Dinitro-o-cresol	5.59	U	191	5.59	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
N-Nitrosodiphenylamine	2.12	U	37.4	2.12	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Diphenylhydrazine, 1,2-	1.82	U	37.4	1.82	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Hexachlorobenzene	1.71	U	37.4	1.71	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Atrazine	5.63	U	37.4	5.63	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Pentachlorophenol	4.49	U	187	4.49	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Phenanthrene	5.55	U	37.4	5.55	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Anthracene	1.44	U	37.4	1.44	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Dibutylphthalate	2.91	U	74.8	2.91	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Fluoranthene	3.49	U	37.4	3.49	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Benzidine	10.1	U	370	10.1	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Pyrene	2.05	U	37.4	2.05	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Dichlorobenzidine, 3,3'-	11.4	U	37.4	11.4	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Benzo[a]anthracene	1.55	U	37.4	1.55	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Di (2-ethylhexyl)phthalate	27.8	J	37.4	6.02	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Chrysene	1.14	U	37.4	1.14	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Benzo[b]fluoranthene	1.93	U	37.4	1.93	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Benzo[k]fluoranthene	1.67	U	37.4	1.67	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Benzo[a]pyrene	1.81	U	37.4	1.81	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Indeno[1,2,3-cd]pyrene	3.93	U	37.4	3.93	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Dibenz(a,h)anthracene	4.07	U	37.4	4.07	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Benzo[g,h,i]perylene	5.69	U	37.4	5.69	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
bis (2-chloroisopropyl) ether	9.92	U	37.4	9.92	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1
Thiophene, tetrahydro-, 1,1-dioxide	18.7	U	37.4	18.7	ug/Kg	☆	08/12/20 11:16	08/17/20 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	42		10 - 148	08/12/20 11:16	08/17/20 14:02	1
2-Fluorobiphenyl	88		38 - 130	08/12/20 11:16	08/17/20 14:02	1
2-Fluorophenol	86		25 - 132	08/12/20 11:16	08/17/20 14:02	1
Nitrobenzene-d5	88		10 - 155	08/12/20 11:16	08/17/20 14:02	1
Terphenyl-d14	108		53 - 134	08/12/20 11:16	08/17/20 14:02	1
Phenol-d5 (Surr)	85		27 - 130	08/12/20 11:16	08/17/20 14:02	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.0	U	71.5	13.0	ug/Kg	☆	08/17/20 09:48	08/18/20 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	40		30 - 164	08/17/20 09:48	08/18/20 18:09	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.618	U	1.05	0.618	mg/Kg	☆	08/08/20 07:14	08/08/20 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	100		70 - 130	08/08/20 07:14	08/08/20 13:31	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209486-1

Client Sample ID: CELL19-SQUARE62-S-2-3-200806

Lab Sample ID: 600-209486-3

Date Collected: 08/06/20 15:39

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.87	U	8.41	2.87	mg/Kg	✱	08/10/20 15:56	08/13/20 18:38	1
C28-C36	8.41	U	8.41	8.41	mg/Kg	✱	08/10/20 15:56	08/13/20 18:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	129		60 - 140				08/10/20 15:56	08/13/20 18:38	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.47	U	1.91	1.47	ug/Kg	✱	08/11/20 08:51	08/12/20 00:08	1
Hexachlorocyclohexane, beta-	1.14	U	1.91	1.14	ug/Kg	✱	08/11/20 08:51	08/12/20 00:08	1
Hexachlorocyclohexane, delta-	0.954	U	1.91	0.954	ug/Kg	✱	08/11/20 08:51	08/12/20 00:08	1
Hexachlorocyclohexane, alpha-	1.12	U	1.91	1.12	ug/Kg	✱	08/11/20 08:51	08/12/20 00:08	1
Hexachlorocyclohexane, gamma-	1.04	U	1.91	1.04	ug/Kg	✱	08/11/20 08:51	08/12/20 00:08	1
Chlordane (technical)	26.3	U	84.1	26.3	ug/Kg	✱	08/11/20 08:51	08/12/20 00:08	1
DDT	2.08	U	3.70	2.08	ug/Kg	✱	08/11/20 08:51	08/12/20 00:08	1
Dieldrin	1.56	U	3.70	1.56	ug/Kg	✱	08/11/20 08:51	08/12/20 00:08	1
Endosulfan I	1.12	U	1.91	1.12	ug/Kg	✱	08/11/20 08:51	08/12/20 00:08	1
Endosulfan II	1.69	U	3.70	1.69	ug/Kg	✱	08/11/20 08:51	08/12/20 00:08	1
Endosulfan sulfate	1.88	U	3.70	1.88	ug/Kg	✱	08/11/20 08:51	08/12/20 00:08	1
Endrin	1.72	U	3.70	1.72	ug/Kg	✱	08/11/20 08:51	08/12/20 00:08	1
Endrin aldehyde	1.75	U	3.70	1.75	ug/Kg	✱	08/11/20 08:51	08/12/20 00:08	1
Heptachlor	1.04	U	1.91	1.04	ug/Kg	✱	08/11/20 08:51	08/12/20 00:08	1
Heptachlor epoxide	1.31	U	1.91	1.31	ug/Kg	✱	08/11/20 08:51	08/12/20 00:08	1
Toxaphene	82.0	U	191	82.0	ug/Kg	✱	08/11/20 08:51	08/12/20 00:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	94		47 - 150				08/11/20 08:51	08/12/20 00:08	1
Tetrachloro-m-xylene	71		50 - 143				08/11/20 08:51	08/12/20 00:08	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00180	U	0.0187	0.00180	mg/Kg	✱	08/11/20 08:51	08/12/20 17:47	1
PCB-1221	0.00968	U	0.0187	0.00968	mg/Kg	✱	08/11/20 08:51	08/12/20 17:47	1
PCB-1232	0.00752	U	0.0187	0.00752	mg/Kg	✱	08/11/20 08:51	08/12/20 17:47	1
PCB-1242	0.00139	U	0.0187	0.00139	mg/Kg	✱	08/11/20 08:51	08/12/20 17:47	1
PCB-1248	0.00279	U	0.0187	0.00279	mg/Kg	✱	08/11/20 08:51	08/12/20 17:47	1
PCB-1254	0.00248	U	0.0187	0.00248	mg/Kg	✱	08/11/20 08:51	08/12/20 17:47	1
PCB-1260	0.0151	U	0.0187	0.0151	mg/Kg	✱	08/11/20 08:51	08/12/20 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		10 - 150				08/11/20 08:51	08/12/20 17:47	1
DCB Decachlorobiphenyl	123		10 - 150				08/11/20 08:51	08/12/20 17:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.15	J	4.51	0.601	mg/Kg	✱		08/11/20 21:30	1
Nitrate as N	13.1		2.25	0.283	mg/Kg	✱		08/11/20 21:30	1
Fluoride	6.54		2.25	0.677	mg/Kg	✱		08/11/20 21:30	1
Nitrite as N	0.335	U	2.25	0.335	mg/Kg	✱		08/11/20 21:30	1
Sulfate	40.2		5.63	1.08	mg/Kg	✱		08/11/20 21:30	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209486-1

Client Sample ID: CELL19-SQUARE62-S-2-3-200806

Lab Sample ID: 600-209486-3

Date Collected: 08/06/20 15:39

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 88.8

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	0.0985	0.0224	mg/Kg		08/12/20 15:04	08/13/20 21:40	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0424	U	0.197	0.0424	mg/Kg		08/12/20 15:04	08/13/20 21:40	1
2,4,6-Trinitrotoluene	0.0302	U	0.0985	0.0302	mg/Kg		08/12/20 15:04	08/13/20 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	104		83 - 122				08/12/20 15:04	08/13/20 21:40	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.544	J	0.552	0.0909	ug/Kg	✱	08/12/20 11:00	08/20/20 15:38	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.252	U	0.875	0.252	ug/Kg	✱	08/17/20 14:49	08/24/20 13:40	1
Perfluorohexanesulfonic acid (PFHxS)	0.306	U	0.875	0.306	ug/Kg	✱	08/17/20 14:49	08/24/20 13:40	1
Perfluorooctanesulfonic acid (PFOS)	0.153	U	0.875	0.153	ug/Kg	✱	08/17/20 14:49	08/24/20 13:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153				08/17/20 14:49	08/24/20 13:40	1
13C8 PFOS	95		70 - 130				08/17/20 14:49	08/24/20 13:40	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.770	U	2.05	0.770	mg/Kg	✱	08/13/20 11:03	08/14/20 20:02	20
Arsenic	4.11	U	10.3	4.11	mg/Kg	✱	08/13/20 11:03	08/14/20 20:02	20
Barium	89.9		20.5	5.13	mg/Kg	✱	08/13/20 11:03	08/14/20 20:02	20
Beryllium	1.03	U	2.57	1.03	mg/Kg	✱	08/13/20 11:03	09/04/20 17:35	50
Cadmium	0.246	U	0.513	0.246	mg/Kg	✱	08/13/20 11:03	08/14/20 20:02	20
Chromium	4.62	U	10.3	4.62	mg/Kg	✱	08/13/20 11:03	08/14/20 20:02	20
Iron	2220		123	61.6	mg/Kg	✱	08/13/20 11:03	08/14/20 20:02	20
Copper	4.11	U	10.3	4.11	mg/Kg	✱	08/13/20 11:03	08/14/20 20:02	20
Manganese	24.1		5.13	2.05	mg/Kg	✱	08/13/20 11:03	08/14/20 20:02	20
Lead	3.21	U	7.70	3.21	mg/Kg	✱	08/13/20 11:03	09/04/20 17:35	50
Antimony	2.05	U	5.13	2.05	mg/Kg	✱	08/13/20 11:03	08/14/20 20:02	20
Selenium	3.29	U	5.13	3.29	mg/Kg	✱	08/13/20 11:03	08/14/20 20:02	20
Thallium	5.13	U	12.8	5.13	mg/Kg	✱	08/13/20 11:03	09/04/20 17:35	50
Zinc	20.5	U	51.3	20.5	mg/Kg	✱	08/13/20 11:03	08/14/20 20:02	20
Uranium	1.03	U	2.57	1.03	mg/Kg	✱	08/13/20 11:03	09/04/20 17:35	50

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00390	U	0.0185	0.00390	mg/Kg	✱	09/02/20 13:16	09/03/20 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.2		1.0	1.0	%			08/11/20 08:50	1
Percent Solids	88.8		1.0	1.0	%			08/11/20 08:50	1
Cyanide, Total	0.0184	U	0.123	0.0184	mg/Kg	✱	08/19/20 16:06	08/19/20 22:21	1
pH	8.9	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.568	b	0.561	0.471	mg/Kg	✱	08/19/20 16:29	08/19/20 20:46	1

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Client Sample Results

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

Job ID: 600-209486-1

Client Sample ID: CELL19-SQUARE62-S-2-3-200806

Lab Sample ID: 600-209486-3

Date Collected: 08/06/20 15:39

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 88.8

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	99.0		10.0	10.0	mg/L			08/17/20 11:57	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	0.829		0.143	0.167	1.00	0.0665	pCi/g	08/17/20 17:22	09/08/20 15:03	1
Radium-228	0.226	U	0.199	0.200		0.250	pCi/g	08/17/20 17:22	09/08/20 15:03	1
Combined Radium 226 + 228	1.06		0.245	0.261		0.250	pCi/g	08/17/20 17:22	09/08/20 15:03	1

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Definitions/Glossary

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

Job ID: 600-209486-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
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/MS Semi VOA

Qualifier	Qualifier Description
E	Result is greater than the UQL and the concentration is an estimated value.
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.
N2	RPD of the MS and MSD exceeds the control limits
U	Analyte was not detected at or above the SDL.

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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.

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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.

General Chemistry

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
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

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Definitions/Glossary

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

Job ID: 600-209486-1

Glossary (Continued)

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

Surrogate Summary

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

Job ID: 600-209486-1

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 (61-130)	DBFM (68-140)	TOL (50-130)	BFB (57-140)
600-209486-1	CELL18-SQUARE176-S-2-3-20(	86	84	98	105
600-209486-2	CELL18-SQUARE154-S-2-3-20 0806	89	86	97	107
600-209486-3	CELL19-SQUARE62-S-2-3-200 806	92	86	93	104
LCS 600-300707/3	Lab Control Sample	90	88	95	110
LCSD 600-300707/4	Lab Control Sample Dup	89	88	91	107
MB 600-300707/6	Method Blank	108	87	92	113

Surrogate Legend

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

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (10-148)	FBP (38-130)	2FP (25-132)	NBZ (10-155)	TPHL (53-134)	PHL (27-130)
600-209486-1	CELL18-SQUARE176-S-2-3-20(	48	86	79	84	103	75
600-209486-2	CELL18-SQUARE154-S-2-3-20 0806	65	63	55	60	103	52
600-209486-3	CELL19-SQUARE62-S-2-3-200 806	42	88	86	88	108	85
LCS 600-300979/24-A	Lab Control Sample	99	95	87	91	116	89
LCS 600-300979/25-A	Lab Control Sample	56	85	73	84	109	79
LCS 600-300979/2-A	Lab Control Sample	100	98	91	95	112	93
MB 600-300979/1-A	Method Blank	76	90	84	89	113	84

Surrogate Legend

TBP = 2,4,6-Tribromophenol

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

TPHL = Terphenyl-d14

PHL = Phenol-d5 (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)	
600-209486-1	CELL18-SQUARE176-S-2-3-20(	64	
600-209486-1 MS	CELL18-SQUARE176-S-2-3-20 0806	75	
600-209486-2	CELL18-SQUARE154-S-2-3-20 0806	82	
600-209486-3	CELL19-SQUARE62-S-2-3-200 806	40	
LCS 400-500496/2-A	Lab Control Sample	94	

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Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209486-1

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)
MB 400-500496/1-A	Method Blank	86

Surrogate Legend

TPP = Triphenylphosphate

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFT1 (70-130)
600-209486-1	CELL18-SQUARE176-S-2-3-200	82
600-209486-2	CELL18-SQUARE154-S-2-3-200 0806	95
600-209486-3	CELL19-SQUARE62-S-2-3-200 806	100
LCS 600-300708/1-A	Lab Control Sample	96
LCSD 600-300708/2-A	Lab Control Sample Dup	96
MB 600-300708/3-A	Method Blank	95

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH1 (60-140)
600-209486-1	CELL18-SQUARE176-S-2-3-200	98
600-209486-2	CELL18-SQUARE154-S-2-3-200 0806	95
600-209486-3	CELL19-SQUARE62-S-2-3-200 806	129
LCS 600-300806/2-A	Lab Control Sample	131
LCSD 600-300806/3-A	Lab Control Sample Dup	131
MB 600-300806/1-A	Method Blank	125

Surrogate Legend

OTPH = o-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP1 (47-150)	TCX1 (50-143)
600-209486-1	CELL18-SQUARE176-S-2-3-200	90	90
600-209486-2	CELL18-SQUARE154-S-2-3-200 0806	53	52
600-209486-3	CELL19-SQUARE62-S-2-3-200 806	94	71
LCS 600-300862/2-A	Lab Control Sample	76	74
LCSD 600-300862/3-A	Lab Control Sample Dup	104	89

Eurofins TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209486-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (47-150)	TCX1 (50-143)
MB 600-300862/1-A	Method Blank	127	116
Surrogate Legend			
DCBP = DCB Decachlorobiphenyl			
TCX = Tetrachloro-m-xylene			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (10-150)	DCBP1 (10-150)
600-209486-1	CELL18-SQUARE176-S-2-3-200	88	111
600-209486-2	CELL18-SQUARE154-S-2-3-200	46	75
600-209486-3	CELL19-SQUARE62-S-2-3-200	77	123
LCS 600-300862/4-A	Lab Control Sample	85	104
LCSD 600-300862/5-A	Lab Control Sample Dup	78	101
MB 600-300862/1-A	Method Blank	117	165 X
Surrogate Legend			
TCX = Tetrachloro-m-xylene			
DCBP = DCB Decachlorobiphenyl			

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)	
600-209486-1	CELL18-SQUARE176-S-2-3-200	105	
600-209486-2	CELL18-SQUARE154-S-2-3-200	102	
600-209486-3	CELL19-SQUARE62-S-2-3-200	104	
LCS 280-505436/2-A	Lab Control Sample	106	
MB 280-505436/1-A	Method Blank	102	
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)
600-209486-1	CELL18-SQUARE176-S-2-3-200	104	95
600-209486-2	CELL18-SQUARE154-S-2-3-200	102	92
600-209486-3	CELL19-SQUARE62-S-2-3-200	104	95
DLCK 280-500633/14	Lab Control Sample	108	91

Eurofins TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S., Inc.

Project/Site: Chevron - Jal Land Farm Soils

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Matrix: Solid

Job ID: 600-209486-1

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)
LCS 280-505864/2-A	Lab Control Sample	101	98
MB 280-505864/1-A	Method Blank	104	94
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: 600-209486-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-300707/6

Matrix: Solid

Analysis Batch: 300707

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.66	U	10.0	1.66	ug/Kg			08/08/20 09:03	1
Vinyl chloride	0.900	U	10.0	0.900	ug/Kg			08/08/20 09:03	1
Bromomethane	0.830	U	10.0	0.830	ug/Kg			08/08/20 09:03	1
Trichlorofluoromethane	0.660	U	10.0	0.660	ug/Kg			08/08/20 09:03	1
Acrolein	6.23	U	25.0	6.23	ug/Kg			08/08/20 09:03	1
1,1-Dichloroethene	1.22	U	5.00	1.22	ug/Kg			08/08/20 09:03	1
trans-1,2-Dichloroethene	1.14	U	5.00	1.14	ug/Kg			08/08/20 09:03	1
Methyl tert-butyl ether	1.83	U	5.00	1.83	ug/Kg			08/08/20 09:03	1
Methylene Chloride	2.19	U	10.0	2.19	ug/Kg			08/08/20 09:03	1
Acrylonitrile	5.82	U	50.0	5.82	ug/Kg			08/08/20 09:03	1
cis-1,2-Dichloroethene	0.830	U	5.00	0.830	ug/Kg			08/08/20 09:03	1
Carbon tetrachloride	1.13	U	5.00	1.13	ug/Kg			08/08/20 09:03	1
Benzene	0.630	U	5.00	0.630	ug/Kg			08/08/20 09:03	1
1,2-Dichloroethane	0.900	U	5.00	0.900	ug/Kg			08/08/20 09:03	1
Trichloroethene	1.40	U	5.00	1.40	ug/Kg			08/08/20 09:03	1
1,1,1-Trichloroethane	0.740	U	5.00	0.740	ug/Kg			08/08/20 09:03	1
1,1-Dichloroethane	0.870	U	5.00	0.870	ug/Kg			08/08/20 09:03	1
1,2-Dichloropropane	0.710	U	5.00	0.710	ug/Kg			08/08/20 09:03	1
1,4-Dioxane	62.1	U	500	62.1	ug/Kg			08/08/20 09:03	1
Chloroform	1.041	J	10.0	0.660	ug/Kg			08/08/20 09:03	1
Bromodichloromethane	0.660	U	5.00	0.660	ug/Kg			08/08/20 09:03	1
1,1-Dichloropropene	0.650	U	5.00	0.650	ug/Kg			08/08/20 09:03	1
cis-1,3-Dichloropropene	0.540	U	5.00	0.540	ug/Kg			08/08/20 09:03	1
Toluene	1.38	U	5.00	1.38	ug/Kg			08/08/20 09:03	1
trans-1,3-Dichloropropene	0.580	U	5.00	0.580	ug/Kg			08/08/20 09:03	1
1,1,2-Trichloroethane	0.730	U	5.00	0.730	ug/Kg			08/08/20 09:03	1
Tetrachloroethene	0.710	U	5.00	0.710	ug/Kg			08/08/20 09:03	1
1,3-Dichloropropene, Total	0.580	U	5.00	0.580	ug/Kg			08/08/20 09:03	1
1,2-Dibromoethane	1.02	U	5.00	1.02	ug/Kg			08/08/20 09:03	1
Monochlorobenzene	0.960	U	5.00	0.960	ug/Kg			08/08/20 09:03	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			08/08/20 09:03	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			08/08/20 09:03	1
Styrene	0.710	U	5.00	0.710	ug/Kg			08/08/20 09:03	1
Tribromomethane	1.37	U	5.00	1.37	ug/Kg			08/08/20 09:03	1
1,1,2,2-Tetrachloroethane	0.870	U	5.00	0.870	ug/Kg			08/08/20 09:03	1
1,4-Dichlorobenzene	0.660	U	5.00	0.660	ug/Kg			08/08/20 09:03	1
1,2-Dichlorobenzene	0.800	U	5.00	0.800	ug/Kg			08/08/20 09:03	1
1,2,4-Trichlorobenzene	1.97	U	5.00	1.97	ug/Kg			08/08/20 09:03	1
Dichlorodifluoromethane	1.54	U	5.00	1.54	ug/Kg			08/08/20 09:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		61 - 130		08/08/20 09:03	1
Dibromofluoromethane	87		68 - 140		08/08/20 09:03	1
Toluene-d8 (Surr)	92		50 - 130		08/08/20 09:03	1
4-Bromofluorobenzene	113		57 - 140		08/08/20 09:03	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209486-1

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

Lab Sample ID: LCS 600-300707/3

Matrix: Solid

Analysis Batch: 300707

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	68.16		ug/Kg		136	44 - 141
Vinyl chloride	50.0	56.75		ug/Kg		113	40 - 148
Bromomethane	50.0	48.02		ug/Kg		96	37 - 147
Trichlorofluoromethane	50.0	57.85		ug/Kg		116	53 - 134
Acrolein	250	213.3		ug/Kg		85	10 - 150
1,1-Dichloroethene	50.0	44.56		ug/Kg		89	62 - 142
trans-1,2-Dichloroethene	50.0	47.78		ug/Kg		96	69 - 130
Methyl tert-butyl ether	50.0	50.55		ug/Kg		101	63 - 132
Methylene Chloride	50.0	46.72		ug/Kg		93	61 - 150
Acrylonitrile	500	477.4		ug/Kg		95	43 - 150
cis-1,2-Dichloroethene	50.0	43.88		ug/Kg		88	70 - 130
Carbon tetrachloride	50.0	50.78		ug/Kg		102	58 - 130
Benzene	50.0	45.50		ug/Kg		91	70 - 131
1,2-Dichloroethane	50.0	53.50		ug/Kg		107	58 - 137
Trichloroethene	50.0	41.64		ug/Kg		83	63 - 135
1,1,1-Trichloroethane	50.0	52.33		ug/Kg		105	59 - 130
1,1-Dichloroethane	50.0	51.11		ug/Kg		102	63 - 140
1,2-Dichloropropane	50.0	47.06		ug/Kg		94	70 - 130
1,4-Dioxane	1000	662.8		ug/Kg		66	31 - 150
Chloroform	50.0	49.95		ug/Kg		100	69 - 130
Bromodichloromethane	50.0	50.27		ug/Kg		101	67 - 138
1,1-Dichloropropene	50.0	47.30		ug/Kg		95	67 - 130
cis-1,3-Dichloropropene	50.0	48.77		ug/Kg		98	65 - 130
Toluene	50.0	45.97		ug/Kg		92	67 - 130
trans-1,3-Dichloropropene	50.0	49.22		ug/Kg		98	70 - 130
1,1,2-Trichloroethane	50.0	45.10		ug/Kg		90	67 - 134
Tetrachloroethene	50.0	43.27		ug/Kg		87	43 - 143
1,3-Dichloropropene, Total	100	97.99		ug/Kg		98	70 - 130
1,2-Dibromoethane	50.0	43.15		ug/Kg		86	65 - 136
Monochlorobenzene	50.0	45.30		ug/Kg		91	63 - 131
Ethylbenzene	50.0	44.42		ug/Kg		89	66 - 130
Xylenes, Total	100	91.39		ug/Kg		91	63 - 130
Styrene	50.0	44.25		ug/Kg		88	65 - 133
Tribromomethane	50.0	48.18		ug/Kg		96	43 - 150
1,1,2,2-Tetrachloroethane	50.0	47.62		ug/Kg		95	61 - 138
1,4-Dichlorobenzene	50.0	49.31		ug/Kg		99	65 - 131
1,2-Dichlorobenzene	50.0	49.61		ug/Kg		99	61 - 131
1,2,4-Trichlorobenzene	50.0	49.16		ug/Kg		98	53 - 136
Dichlorodifluoromethane	50.0	64.31		ug/Kg		129	24 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		61 - 130
Dibromofluoromethane	88		68 - 140
Toluene-d8 (Surr)	95		50 - 130
4-Bromofluorobenzene	110		57 - 140

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209486-1

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

Lab Sample ID: LCSD 600-300707/4

Matrix: Solid

Analysis Batch: 300707

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
Chloromethane	50.0	57.80		ug/Kg		116	44 - 141	16	30
Vinyl chloride	50.0	48.37		ug/Kg		97	40 - 148	16	30
Bromomethane	50.0	34.53	*	ug/Kg		69	37 - 147	33	30
Trichlorofluoromethane	50.0	53.31		ug/Kg		107	53 - 134	8	30
Acrolein	250	167.3		ug/Kg		67	10 - 150	24	30
1,1-Dichloroethene	50.0	39.90		ug/Kg		80	62 - 142	11	30
trans-1,2-Dichloroethene	50.0	43.12		ug/Kg		86	69 - 130	10	30
Methyl tert-butyl ether	50.0	49.06		ug/Kg		98	63 - 132	3	30
Methylene Chloride	50.0	40.83		ug/Kg		82	61 - 150	13	30
Acrylonitrile	500	382.6		ug/Kg		77	43 - 150	22	30
cis-1,2-Dichloroethene	50.0	43.72		ug/Kg		87	70 - 130	0	30
Carbon tetrachloride	50.0	48.66		ug/Kg		97	58 - 130	4	30
Benzene	50.0	43.98		ug/Kg		88	70 - 131	3	30
1,2-Dichloroethane	50.0	51.06		ug/Kg		102	58 - 137	5	30
Trichloroethene	50.0	40.15		ug/Kg		80	63 - 135	4	30
1,1,1-Trichloroethane	50.0	50.47		ug/Kg		101	59 - 130	4	30
1,1-Dichloroethane	50.0	48.37		ug/Kg		97	63 - 140	6	30
1,2-Dichloropropane	50.0	45.74		ug/Kg		91	70 - 130	3	30
1,4-Dioxane	1000	744.2		ug/Kg		74	31 - 150	12	30
Chloroform	50.0	47.93		ug/Kg		96	69 - 130	4	30
Bromodichloromethane	50.0	47.68		ug/Kg		95	67 - 138	5	30
1,1-Dichloropropene	50.0	47.28		ug/Kg		95	67 - 130	0	30
cis-1,3-Dichloropropene	50.0	45.41		ug/Kg		91	65 - 130	7	30
Toluene	50.0	43.25		ug/Kg		87	67 - 130	6	30
trans-1,3-Dichloropropene	50.0	46.31		ug/Kg		93	70 - 130	6	30
1,1,2-Trichloroethane	50.0	41.82		ug/Kg		84	67 - 134	8	30
Tetrachloroethene	50.0	41.84		ug/Kg		84	43 - 143	3	30
1,3-Dichloropropene, Total	100	91.72		ug/Kg		92	70 - 130	7	30
1,2-Dibromoethane	50.0	40.36		ug/Kg		81	65 - 136	7	30
Monochlorobenzene	50.0	43.22		ug/Kg		86	63 - 131	5	30
Ethylbenzene	50.0	42.25		ug/Kg		85	66 - 130	5	30
Xylenes, Total	100	87.88		ug/Kg		88	63 - 130	4	30
Styrene	50.0	42.79		ug/Kg		86	65 - 133	3	30
Tribromomethane	50.0	44.68		ug/Kg		89	43 - 150	8	30
1,1,2,2-Tetrachloroethane	50.0	41.86		ug/Kg		84	61 - 138	13	30
1,4-Dichlorobenzene	50.0	46.96		ug/Kg		94	65 - 131	5	30
1,2-Dichlorobenzene	50.0	46.90		ug/Kg		94	61 - 131	6	30
1,2,4-Trichlorobenzene	50.0	45.58		ug/Kg		91	53 - 136	8	30
Dichlorodifluoromethane	50.0	56.57		ug/Kg		113	24 - 147	13	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		61 - 130
Dibromofluoromethane	88		68 - 140
Toluene-d8 (Surr)	91		50 - 130
4-Bromofluorobenzene	107		57 - 140

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209486-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-300979/1-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.17	U	33.1	4.17	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiethylamine	7.14	U	33.1	7.14	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Bis(2-chloroethyl)ether	1.64	U	33.1	1.64	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachloroethane	2.30	U	33.1	2.30	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosopyrrolidine	4.65	U	33.1	4.65	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene	2.94	U	33.1	2.94	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Isophorone	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dichlorophenol	3.85	U	33.1	3.85	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Naphthalene	1.34	U	33.1	1.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobutadiene	1.91	U	33.1	1.91	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodi-n-butylamine	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2-Methylnaphthalene	2.73	U	33.1	2.73	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1-Methylnaphthalene	1.56	U	33.1	1.56	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1,2,4,5-Tetrachlorobenzene	6.71	U	33.1	6.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorocyclopentadiene	4.59	U	33.1	4.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,6-Trichlorophenol	2.67	U	33.1	2.67	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,5-Trichlorophenol	9.96	U	33.1	9.96	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dimethyl phthalate	4.86	U	66.3	4.86	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthylene	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,6-Dinitrotoluene	2.93	U	33.1	2.93	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthene	1.43	U	33.1	1.43	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitrophenols	4.69	U	99.5	4.69	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorobenzene	3.99	U	33.1	3.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dinitrotoluene	3.59	U	33.1	3.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diethyl phthalate	8.39	U	66.3	8.39	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluorene	2.35	U	33.1	2.35	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitro-o-cresol	4.95	U	169	4.95	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiphenylamine	1.88	U	33.1	1.88	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diphenylhydrazine, 1,2-	1.61	U	33.1	1.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobenzene	1.51	U	33.1	1.51	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Atrazine	4.99	U	33.1	4.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorophenol	3.98	U	166	3.98	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Phenanthrene	4.92	U	33.1	4.92	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Anthracene	1.27	U	33.1	1.27	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibutylphthalate	2.58	U	66.3	2.58	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluoranthene	3.09	U	33.1	3.09	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzidine	8.97	U	328	8.97	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pyrene	1.82	U	33.1	1.82	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dichlorobenzidine, 3,3'-	10.1	U	33.1	10.1	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]anthracene	1.37	U	33.1	1.37	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Di (2-ethylhexyl)phthalate	5.34	U	33.1	5.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Chrysene	1.01	U	33.1	1.01	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[b]fluoranthene	1.71	U	33.1	1.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[k]fluoranthene	1.48	U	33.1	1.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]pyrene	1.60	U	33.1	1.60	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Indeno[1,2,3-cd]pyrene	3.48	U	33.1	3.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibenz(a,h)anthracene	3.61	U	33.1	3.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[g,h,i]perylene	5.04	U	33.1	5.04	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209486-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-300979/1-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	8.79	U	33.1	8.79	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Thiophene, tetrahydro-, 1,1-dioxide	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		10 - 148	08/12/20 09:49	08/17/20 08:25	1
2-Fluorobiphenyl	90		38 - 130	08/12/20 09:49	08/17/20 08:25	1
2-Fluorophenol	84		25 - 132	08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene-d5	89		10 - 155	08/12/20 09:49	08/17/20 08:25	1
Terphenyl-d14	113		53 - 134	08/12/20 09:49	08/17/20 08:25	1
Phenol-d5 (Surr)	84		27 - 130	08/12/20 09:49	08/17/20 08:25	1

Lab Sample ID: LCS 600-300979/24-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	663	603.2		ug/Kg		91	50 - 150
N-Nitrosopyrrolidine	663	640.3		ug/Kg		97	50 - 150
N-Nitrosodi-n-butylamine	663	504.6		ug/Kg		76	50 - 150
Pentachlorobenzene	663	570.9		ug/Kg		86	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	99		10 - 148
2-Fluorobiphenyl	95		38 - 130
2-Fluorophenol	87		25 - 132
Nitrobenzene-d5	91		10 - 155
Terphenyl-d14	116		53 - 134
Phenol-d5 (Surr)	89		27 - 130

Lab Sample ID: LCS 600-300979/25-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thiophene, tetrahydro-, 1,1-dioxide	1330	1839	E	ug/Kg		138	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	56		10 - 148
2-Fluorobiphenyl	85		38 - 130
2-Fluorophenol	73		25 - 132
Nitrobenzene-d5	84		10 - 155
Terphenyl-d14	109		53 - 134
Phenol-d5 (Surr)	79		27 - 130

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209486-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	663	620.7		ug/Kg		94	29 - 130
Bis(2-chloroethyl)ether	663	632.1		ug/Kg		95	40 - 130
Hexachloroethane	663	616.4		ug/Kg		93	37 - 130
Nitrobenzene	663	664.3		ug/Kg		100	42 - 130
Isophorone	663	669.6		ug/Kg		101	39 - 130
2,4-Dichlorophenol	663	685.5		ug/Kg		103	38 - 130
Naphthalene	663	645.1		ug/Kg		97	40 - 130
Hexachlorobutadiene	663	643.5		ug/Kg		97	36 - 130
2-Methylnaphthalene	663	669.4		ug/Kg		101	43 - 130
1-Methylnaphthalene	663	645.4		ug/Kg		97	43 - 130
1,2,4,5-Tetrachlorobenzene	663	672.6		ug/Kg		101	37 - 130
Hexachlorocyclopentadiene	663	594.1		ug/Kg		90	10 - 130
2,4,6-Trichlorophenol	663	691.8		ug/Kg		104	39 - 130
2,4,5-Trichlorophenol	663	714.3		ug/Kg		108	41 - 130
Dimethyl phthalate	663	732.0		ug/Kg		110	40 - 130
Acenaphthylene	663	717.5		ug/Kg		108	39 - 130
2,6-Dinitrotoluene	663	718.6		ug/Kg		108	44 - 130
Acenaphthene	663	691.9		ug/Kg		104	42 - 130
Dinitrophenols	1330	1084		ug/Kg		82	15 - 130
2,4-Dinitrotoluene	663	719.1		ug/Kg		109	45 - 130
Diethyl phthalate	663	753.6		ug/Kg		114	50 - 130
Fluorene	663	722.7		ug/Kg		109	46 - 130
Dinitro-o-cresol	1330	1237		ug/Kg		93	38 - 130
N-Nitrosodiphenylamine	663	778.1		ug/Kg		117	48 - 130
Diphenylhydrazine, 1,2-	663	789.2		ug/Kg		119	50 - 130
Hexachlorobenzene	663	733.7		ug/Kg		111	44 - 130
Atrazine	663	523.8		ug/Kg		79	10 - 140
Pentachlorophenol	1330	1166		ug/Kg		88	40 - 130
Phenanthrene	663	759.4		ug/Kg		115	51 - 130
Anthracene	663	775.6		ug/Kg		117	51 - 130
Dibutylphthalate	663	860.8		ug/Kg		130	51 - 135
Fluoranthene	663	763.4		ug/Kg		115	53 - 130
Benzidine	3310	861.3		ug/Kg		26	10 - 130
Pyrene	663	785.6		ug/Kg		119	53 - 130
Dichlorobenzidine, 3,3'-	663	456.2		ug/Kg		69	13 - 146
Benzo[a]anthracene	663	760.5		ug/Kg		115	54 - 130
Di (2-ethylhexyl)phthalate	663	842.8		ug/Kg		127	41 - 145
Chrysene	663	776.4		ug/Kg		117	52 - 130
Benzo[b]fluoranthene	663	733.1		ug/Kg		111	41 - 139
Benzo[k]fluoranthene	663	726.2		ug/Kg		110	42 - 134
Benzo[a]pyrene	663	719.7		ug/Kg		109	44 - 131
Indeno[1,2,3-cd]pyrene	663	738.7		ug/Kg		111	35 - 146
Dibenz(a,h)anthracene	663	775.0		ug/Kg		117	40 - 137
Benzo[g,h,i]perylene	663	778.5		ug/Kg		117	38 - 142
bis (2-chloroisopropyl) ether	663	638.6		ug/Kg		96	38 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	100		10 - 148

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209486-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	98		38 - 130
2-Fluorophenol	91		25 - 132
Nitrobenzene-d5	95		10 - 155
Terphenyl-d14	112		53 - 134
Phenol-d5 (Surr)	93		27 - 130

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-500496/1-A

Matrix: Solid

Analysis Batch: 500677

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 500496

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	Result	Qualifier					08/17/20 09:48	08/18/20 13:08	1
	12.0	U	66.0	12.0	ug/Kg				
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
Triphenylphosphate	%Recovery	Qualifier		08/17/20 09:48	08/18/20 13:08	1			
	86		30 - 164						

Lab Sample ID: LCS 400-500496/2-A

Matrix: Solid

Analysis Batch: 500677

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 500496

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits	
Prometon	Added	Result	Qualifier	ug/Kg		96		40 - 140	
	333	320.1							
Surrogate	LCS	LCS	Limits	Prepared	Analyzed	Dil Fac			
Triphenylphosphate	%Recovery	Qualifier		08/17/20 09:48	08/18/20 13:08	1			
	94		30 - 164						

Lab Sample ID: 600-209486-1 MS

Matrix: Solid

Analysis Batch: 500677

Client Sample ID: CELL18-SQUARE176-S-2-3-200806

Prep Type: Total/NA

Prep Batch: 500496

Sample Data: 08/17/20										
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Prometon	14.0	U	388	315.5		ug/Kg	☼	81	40 - 140	
Surrogate Data: 08/18/20										
Surrogate	MS %Recovery	MS Qualifier	Limits	Prepared	Analyzed	Dil Fac				
Triphenylphosphate	75		30 - 164	08/17/20 09:48	08/18/20 13:08	1				

Lab Sample ID: 600-209486-1 MSD

Matrix: Solid

Analysis Batch: 500677

Client Sample ID: CELL18-SQUARE176-S-2-3-200806

Prep Type: Total/NA

Prep Batch: 500496

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
Prometon	Result	Qualifier	Added	Result	Qualifier	ug/Kg		34		40 - 140	81	50
	14.0	U	388	133.9	N1 N2		✱					

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209486-1

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-300708/3-A

Matrix: Solid

Analysis Batch: 300709

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300708

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg		08/08/20 07:14	08/08/20 09:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		70 - 130				08/08/20 07:14	08/08/20 09:47	1

Lab Sample ID: LCS 600-300708/1-A

Matrix: Solid

Analysis Batch: 300709

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300708

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]	5.04	5.069		mg/Kg		101	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
a,a,a-Trifluorotoluene	96		70 - 130				

Lab Sample ID: LCSD 600-300708/2-A

Matrix: Solid

Analysis Batch: 300709

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300708

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	5.04	5.417		mg/Kg		108	70 - 130	7	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	96		70 - 130						

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

Lab Sample ID: MB 600-300806/1-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg		08/10/20 15:56	08/13/20 11:51	1
C28-C36	4.97	U	4.97	4.97	mg/Kg		08/10/20 15:56	08/13/20 11:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	125		60 - 140				08/10/20 15:56	08/13/20 11:51	1

Lab Sample ID: LCS 600-300806/2-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.6	70.64		mg/Kg		106	66 - 134

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209486-1

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

Lab Sample ID: LCS 600-300806/2-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300806

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	131		60 - 140

Lab Sample ID: LCSD 600-300806/3-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300806

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	66.6	75.11		mg/Kg		113	66 - 134	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	131		60 - 140

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 600-300862/1-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.30	U	1.69	1.30	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, beta-	1.02	U	1.69	1.02	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, delta-	0.847	U	1.69	0.847	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, alpha-	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, gamma-	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Chlordane (technical)	23.3	U	74.7	23.3	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
DDT	1.84	U	3.29	1.84	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Dieldrin	1.38	U	3.29	1.38	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan I	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan II	1.50	U	3.29	1.50	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan sulfate	1.67	U	3.29	1.67	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin	1.52	U	3.29	1.52	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin aldehyde	1.55	U	3.29	1.55	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor epoxide	1.17	U	1.69	1.17	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Toxaphene	72.8	U	169	72.8	ug/Kg		08/11/20 08:51	08/11/20 19:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	127		47 - 150	08/11/20 08:51	08/11/20 19:37	1
Tetrachloro-m-xylene	116		50 - 143	08/11/20 08:51	08/11/20 19:37	1

Lab Sample ID: LCS 600-300862/2-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.6	18.06		ug/Kg		109	42 - 150
Hexachlorocyclohexane, beta-	16.6	18.03		ug/Kg		108	32 - 150

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209486-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 600-300862/2-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorocyclohexane, delta-	16.6	20.49		ug/Kg		123	33 - 150
Hexachlorocyclohexane, alpha-	16.6	18.14		ug/Kg		109	63 - 130
Hexachlorocyclohexane, gamma-	16.6	18.30		ug/Kg		110	36 - 150
DDT	16.6	22.31		ug/Kg		134	46 - 150
Dieldrin	16.6	18.72		ug/Kg		113	42 - 150
Endosulfan I	16.6	13.84		ug/Kg		83	37 - 150
Endosulfan II	16.6	18.94		ug/Kg		114	43 - 150
Endosulfan sulfate	16.6	20.02		ug/Kg		120	32 - 150
Endrin	16.6	20.38		ug/Kg		123	41 - 150
Endrin aldehyde	16.6	22.48		ug/Kg		135	42 - 150
Heptachlor	16.6	18.17		ug/Kg		109	35 - 150
Heptachlor epoxide	16.6	17.12		ug/Kg		103	42 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	76		47 - 150
Tetrachloro-m-xylene	74		50 - 143

Lab Sample ID: LCSD 600-300862/3-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	16.6	17.36		ug/Kg		104	42 - 150	4	20
Hexachlorocyclohexane, beta-	16.6	18.09		ug/Kg		109	32 - 150	0	20
Hexachlorocyclohexane, delta-	16.6	20.47		ug/Kg		123	33 - 150	0	20
Hexachlorocyclohexane, alpha-	16.6	16.93		ug/Kg		102	63 - 130	7	20
Hexachlorocyclohexane, gamma-	16.6	17.29		ug/Kg		104	36 - 150	6	20
DDT	16.6	22.58		ug/Kg		136	46 - 150	1	20
Dieldrin	16.6	18.96		ug/Kg		114	42 - 150	1	20
Endosulfan I	16.6	14.22		ug/Kg		86	37 - 150	3	20
Endosulfan II	16.6	18.23		ug/Kg		110	43 - 150	4	20
Endosulfan sulfate	16.6	20.67		ug/Kg		124	32 - 150	3	20
Endrin	16.6	21.64		ug/Kg		130	41 - 150	6	20
Endrin aldehyde	16.6	23.30		ug/Kg		140	42 - 150	4	20
Heptachlor	16.6	16.75		ug/Kg		101	35 - 150	8	20
Heptachlor epoxide	16.6	16.99		ug/Kg		102	42 - 150	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	104		47 - 150
Tetrachloro-m-xylene	89		50 - 143

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209486-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 600-300862/1-A

Matrix: Solid

Analysis Batch: 300977

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00159	U	0.0166	0.00159	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1221	0.00860	U	0.0166	0.00860	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1232	0.00667	U	0.0166	0.00667	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1242	0.00124	U	0.0166	0.00124	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1248	0.00248	U	0.0166	0.00248	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1254	0.00220	U	0.0166	0.00220	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1260	0.0134	U	0.0166	0.0134	mg/Kg		08/11/20 08:51	08/12/20 12:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	117		10 - 150	08/11/20 08:51	08/12/20 12:54	1
DCB Decachlorobiphenyl	165	X	10 - 150	08/11/20 08:51	08/12/20 12:54	1

Lab Sample ID: LCS 600-300862/4-A

Matrix: Solid

Analysis Batch: 300977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.166	0.1532		mg/Kg		92	42 - 130
PCB-1260	0.166	0.1225		mg/Kg		74	59 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	85		10 - 150
DCB Decachlorobiphenyl	104		10 - 150

Lab Sample ID: LCSD 600-300862/5-A

Matrix: Solid

Analysis Batch: 300977

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	0.166	0.1574		mg/Kg		95	42 - 130	3	30
PCB-1260	0.166	0.1241		mg/Kg		75	59 - 135	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	78		10 - 150
DCB Decachlorobiphenyl	101		10 - 150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/11/20 11:50	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/11/20 11:50	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209486-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/12/20 02:57	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/12/20 02:57	1

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	98.87		mg/Kg		99	90 - 110
Nitrite as N	100	101.4		mg/Kg		101	90 - 110

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	91.93		mg/Kg		92	90 - 110
Nitrite as N	100	100.5		mg/Kg		100	90 - 110

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			08/11/20 11:50	1
Fluoride	0.601	U	2.00	0.601	mg/Kg			08/11/20 11:50	1
Sulfate	0.957	U	5.00	0.957	mg/Kg			08/11/20 11:50	1

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	193.0		mg/Kg		97	90 - 110
Fluoride	75.0	82.00		mg/Kg		109	90 - 110
Sulfate	200	193.9		mg/Kg		97	90 - 110

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-505436/1-A

Matrix: Solid

Analysis Batch: 505596

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505436

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		08/12/20 15:04	08/13/20 16:41	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		08/12/20 15:04	08/13/20 16:41	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		08/12/20 15:04	08/13/20 16:41	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209486-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: MB 280-505436/1-A

Matrix: Solid

Analysis Batch: 505596

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505436

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	102		83 - 122	08/12/20 15:04	08/13/20 16:41	1

Lab Sample ID: LCS 280-505436/2-A

Matrix: Solid

Analysis Batch: 505596

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505436

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	1.051		mg/Kg		105	80 - 124
2,4,6-Trinitrotoluene	1.00	1.050		mg/Kg		105	80 - 120

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

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: MB 280-505376/1-A

Matrix: Solid

Analysis Batch: 506026

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		08/12/20 11:00	08/20/20 14:31	1

Lab Sample ID: LCS 280-505376/2-A

Matrix: Solid

Analysis Batch: 506026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5330		ug/Kg		107	80 - 120

Lab Sample ID: DLCK 280-506024/12

Matrix: Solid

Analysis Batch: 506024

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	0.04997	J	ug/L		100	70 - 130

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-500633/14

Matrix: Solid

Analysis Batch: 500633

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	0.4920	J	ug/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4537	J	ug/L		100	70 - 130

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209486-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: DLCK 280-500633/14

Matrix: Solid

Analysis Batch: 500633

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		92	70 - 130

Surrogate	DLCK %Recovery	DLCK Qualifier	Limits
13C8 PFOA	108		57 - 153
13C8 PFOS	91		70 - 130

Lab Sample ID: MB 280-505864/1-A

Matrix: Solid

Analysis Batch: 506717

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505864

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		08/17/20 14:49	08/24/20 11:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		08/17/20 14:49	08/24/20 11:46	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		08/17/20 14:49	08/24/20 11:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	08/17/20 14:49	08/24/20 11:46	1
13C8 PFOS	94		70 - 130	08/17/20 14:49	08/24/20 11:46	1

Lab Sample ID: LCS 280-505864/2-A

Matrix: Solid

Analysis Batch: 506717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	18.81		ug/Kg		94	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	16.81		ug/Kg		92	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	18.69		ug/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
13C8 PFOA	101		57 - 153
13C8 PFOS	98		70 - 130

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-479336/1-A ^2

Matrix: Solid

Analysis Batch: 479582

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 479336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0656	U	0.175	0.0656	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Arsenic	0.350	U	0.875	0.350	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Barium	0.438	U	1.75	0.438	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Cadmium	0.0210	U	0.0438	0.0210	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Chromium	0.394	U	0.875	0.394	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Iron	5.25	U	10.5	5.25	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Copper	0.350	U	0.875	0.350	mg/Kg		08/13/20 11:03	08/14/20 19:16	2

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209486-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 160-479336/1-A ^2

Matrix: Solid

Analysis Batch: 479582

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 479336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.175	U	0.438	0.175	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Lead	0.109	U	0.263	0.109	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Antimony	0.175	U	0.438	0.175	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Selenium	0.280	U	0.438	0.280	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Thallium	0.175	U	0.438	0.175	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Zinc	1.75	U	4.38	1.75	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Uranium	0.0350	U	0.0875	0.0350	mg/Kg		08/13/20 11:03	08/14/20 19:16	2

Lab Sample ID: MB 160-479336/1-A ^2

Matrix: Solid

Analysis Batch: 479960

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 479336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.0350	U ^	0.0875	0.0350	mg/Kg		08/13/20 11:03	08/19/20 18:31	2

Lab Sample ID: LCS 160-479336/2-A ^2

Matrix: Solid

Analysis Batch: 479582

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 479336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	19.7	19.01		mg/Kg		96	66 - 133
Arsenic	98.6	102.8		mg/Kg		104	70 - 131
Barium	98.6	96.21		mg/Kg		98	74 - 125
Beryllium	9.87	9.322		mg/Kg		94	74 - 126
Cadmium	98.5	101.0		mg/Kg		103	73 - 139
Chromium	98.6	105.1		mg/Kg		107	69 - 130
Iron	98.6	102.8		mg/Kg		104	32 - 167
Copper	98.5	112.8		mg/Kg		114	73 - 126
Manganese	98.6	102.7		mg/Kg		104	77 - 124
Lead	98.5	104.5		mg/Kg		106	80 - 120
Antimony	49.3	45.79		mg/Kg		93	21 - 251
Selenium	49.3	50.05		mg/Kg		102	69 - 131
Thallium	19.7	20.63		mg/Kg		105	68 - 131
Zinc	98.5	103.4		mg/Kg		105	71 - 128
Uranium	98.6	103.5		mg/Kg		105	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 600-302704/7-A

Matrix: Solid

Analysis Batch: 302818

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 302704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00341	U	0.0162	0.00341	mg/Kg		09/02/20 13:16	09/03/20 13:22	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209486-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 600-302704/8-A

Matrix: Solid

Analysis Batch: 302818

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 302704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.2549		mg/Kg		110	70 - 130

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: LB 600-301322/1-A

Matrix: Solid

Analysis Batch: 301367

Client Sample ID: Method Blank

Prep Type: 7 Day Leach

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			08/17/20 11:57	1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 600-301619/1-A

Matrix: Solid

Analysis Batch: 301634

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00150	U	0.0100	0.00150	mg/Kg		08/19/20 16:06	08/19/20 22:11	1

Lab Sample ID: LCS 600-301619/2-A

Matrix: Solid

Analysis Batch: 301634

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.1093		mg/Kg		109	90 - 110

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation)

Lab Sample ID: MB 600-301626/1-A

Matrix: Solid

Analysis Batch: 301633

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.004840	J	0.00500	0.00419	mg/Kg		08/19/20 16:29	08/19/20 20:57	1

Lab Sample ID: LCS 600-301626/2-A

Matrix: Solid

Analysis Batch: 301633

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.100	0.1004		mg/Kg		100	90 - 110

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209486-1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-479639/1-A

Matrix: Solid

Analysis Batch: 481714

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 479639

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05851	U	0.184	0.184	1.00	0.317	pCi/g	08/17/20 17:22	09/08/20 10:45	1
Radium-228	0.1048	U	0.195	0.196		0.306	pCi/g	08/17/20 17:22	09/08/20 10:45	1
Combined Radium 226 + 228	0.1633	U	0.268	0.269		0.317	pCi/g	08/17/20 17:22	09/08/20 10:45	1

Lab Sample ID: LCS 160-479639/2-A

Matrix: Solid

Analysis Batch: 481712

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 479639

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.5	99.34		10.4		0.855	pCi/g	103	87 - 116
Cesium-137	26.9	24.88		2.65		0.174	pCi/g	93	87 - 120
Cobalt-60	9.80	8.970		0.943		0.105	pCi/g	92	87 - 115

Lab Sample ID: 600-209486-1 DU

Matrix: Solid

Analysis Batch: 481717

Client Sample ID: CELL18-SQUARE176-S-2-3-200806

Prep Type: Total/NA

Prep Batch: 479639

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.763		0.8058		0.159	1.00	0.0850	pCi/g	0.14	1
Radium-228	0.391		0.2655		0.136		0.128	pCi/g	0.49	1
Combined Radium 226 + 228	1.15		1.071		0.209		0.128	pCi/g	0.20	1

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209486-1

GC/MS VOA

Analysis Batch: 300707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8260B	300714
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	8260B	300714
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	8260B	300714
MB 600-300707/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-300707/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-300707/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 300714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	5030B	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	5030B	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	5030B	

GC/MS Semi VOA

Prep Batch: 300979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	3546	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	3546	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	3546	
MB 600-300979/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 301300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8270C LL	300979
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	8270C LL	300979
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	8270C LL	300979
MB 600-300979/1-A	Method Blank	Total/NA	Solid	8270C LL	300979
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979

Prep Batch: 500496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	3546	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	3546	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	3546	
MB 400-500496/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-500496/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-209486-1 MS	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	3546	
600-209486-1 MSD	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	3546	

Analysis Batch: 500677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8270D	500496
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	8270D	500496
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	8270D	500496
MB 400-500496/1-A	Method Blank	Total/NA	Solid	8270D	500496

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209486-1

GC/MS Semi VOA (Continued)

Analysis Batch: 500677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-500496/2-A	Lab Control Sample	Total/NA	Solid	8270D	500496
600-209486-1 MS	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8270D	500496
600-209486-1 MSD	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8270D	500496

GC VOA

Prep Batch: 300708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	5030B	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	5030B	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	5030B	
MB 600-300708/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-300708/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-300708/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 300709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8015B	300708
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	8015B	300708
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	8015B	300708
MB 600-300708/3-A	Method Blank	Total/NA	Solid	8015B	300708
LCS 600-300708/1-A	Lab Control Sample	Total/NA	Solid	8015B	300708
LCSD 600-300708/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300708

GC Semi VOA

Prep Batch: 300806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	3546	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	3546	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	3546	
MB 600-300806/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 300862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	3546	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	3546	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	3546	
MB 600-300862/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300862/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
LCSD 600-300862/5-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 300913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8081A	300862
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	8081A	300862
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	8081A	300862
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8081A	300862

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209486-1

GC Semi VOA (Continued)

Analysis Batch: 300913 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	8081A	300862
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	300862

Analysis Batch: 300977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8082	300862
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	8082	300862
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	8082	300862
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8082	300862
LCS 600-300862/4-A	Lab Control Sample	Total/NA	Solid	8082	300862
LCSD 600-300862/5-A	Lab Control Sample Dup	Total/NA	Solid	8082	300862

Analysis Batch: 301085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8015B	300806
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	8015B	300806
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	8015B	300806
MB 600-300806/1-A	Method Blank	Total/NA	Solid	8015B	300806
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	8015B	300806
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300806

HPLC/IC

Analysis Batch: 300880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Soluble	Solid	300.0	300916
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Soluble	Solid	300.0	300916
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
LCSD 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

Analysis Batch: 300881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Soluble	Solid	300.0	300916
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Soluble	Solid	300.0	300916
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

Leach Batch: 300916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Soluble	Solid	DI Leach	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Soluble	Solid	DI Leach	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Soluble	Solid	DI Leach	
MB 600-300916/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209486-1

HPLC/IC

ISM Prep Batch: 505294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	Increment, prep	

Prep Batch: 505436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8330B	505294
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	8330B	505294
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	8330B	505294
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 505596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8330B	505436
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	8330B	505436
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	8330B	505436
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	505436
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	505436

LCMS

Analysis Batch: 500633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-500633/14	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Prep Batch: 505376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	6860	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	6860	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	6860	
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 505864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	PFC leach	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	PFC leach	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	PFC leach	
MB 280-505864/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 506024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-506024/12	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 506026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	6860	505376
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	6860	505376
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	6860	505376

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209486-1

LCMS (Continued)

Analysis Batch: 506026 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	505376
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	505376

Analysis Batch: 506717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
MB 280-505864/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	505864
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	505864

Metals

Prep Batch: 302704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	7471B	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	7471B	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	7471B	
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 302818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	7471B	302704
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	7471B	302704
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	7471B	302704
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	302704
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	302704

Prep Batch: 479336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	3050B	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	3050B	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	3050B	
MB 160-479336/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 160-479336/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 479582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	6020	479336
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	6020	479336
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	6020	479336
MB 160-479336/1-A ^2	Method Blank	Total/NA	Solid	6020	479336
LCS 160-479336/2-A ^2	Lab Control Sample	Total/NA	Solid	6020	479336

Analysis Batch: 479960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-479336/1-A ^2	Method Blank	Total/NA	Solid	6020	479336

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209486-1

Metals

Analysis Batch: 481698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	6020	479336
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	6020	479336
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	6020	479336

General Chemistry

Analysis Batch: 300861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	2540B	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	2540B	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	2540B	

Leach Batch: 301322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	7 Day Leach	Solid	335.521	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	7 Day Leach	Solid	335.521	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	7 Day Leach	Solid	335.521	
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	335.521	

Analysis Batch: 301367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301322
600-209486-2	CELL18-SQUARE154-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301322
600-209486-3	CELL19-SQUARE62-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301322
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	2540 C-1997	301322

Prep Batch: 301619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	9012B	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	9012B	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	9012B	
MB 600-301619/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 600-301619/2-A	Lab Control Sample	Total/NA	Solid	9012B	

Prep Batch: 301626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	Distill/Phenol	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	Distill/Phenol	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	Distill/Phenol	
MB 600-301626/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 600-301626/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 301633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	9066	301626
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	9066	301626
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	9066	301626
MB 600-301626/1-A	Method Blank	Total/NA	Solid	9066	301626
LCS 600-301626/2-A	Lab Control Sample	Total/NA	Solid	9066	301626

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209486-1

General Chemistry

Analysis Batch: 301634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	9012B	301619
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	9012B	301619
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	9012B	301619
MB 600-301619/1-A	Method Blank	Total/NA	Solid	9012B	301619
LCS 600-301619/2-A	Lab Control Sample	Total/NA	Solid	9012B	301619

Analysis Batch: 302075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	9045D	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	9045D	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	9045D	
LCS 600-302075/1	Lab Control Sample	Total/NA	Solid	9045D	

Rad

Leach Batch: 479217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	Dry and Grind	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	Dry and Grind	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	Dry and Grind	
600-209486-1 DU	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	Dry and Grind	

Prep Batch: 479639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479217
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479217
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479217
MB 160-479639/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-479639/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
600-209486-1 DU	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479217

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE176-S-2-3-200806

Lab Sample ID: 600-209486-1

Date Collected: 08/06/20 14:35

Matrix: Solid

Date Received: 08/07/20 09:20

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					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.16 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 20:54	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300861	08/11/20 08:50	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.08 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			374.3 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481712	09/08/20 13:57	SCB	TAL SL

Client Sample ID: CELL18-SQUARE176-S-2-3-200806

Lab Sample ID: 600-209486-1

Date Collected: 08/06/20 14:35

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	300714	08/08/20 10:45	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	300707	08/08/20 14:03	WS1	TAL HOU
Total/NA	Prep	3546			15.04 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 13:13	TTD	TAL HOU
Total/NA	Prep	3546			15.02 g	1 mL	500496	08/17/20 09:48	SHB	TAL PEN
Total/NA	Analysis	8270D		1			500677	08/18/20 16:29	PP1	TAL PEN
Total/NA	Prep	5030B			9.52 g	10 mL	300708	08/08/20 07:14	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	300709	08/08/20 12:41	WS1	TAL HOU
Total/NA	Prep	3546			3.06 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 16:57	RJV	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/11/20 23:19	JAL	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			300977	08/12/20 16:57	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 20:49	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 20:49	W1N	TAL HOU
Total/NA	Prep	6860			10.37 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 15:13	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.98 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 13:23	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5307 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			479582	08/14/20 19:58	FLC	TAL SL
Total/NA	Prep	3050B			0.5307 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		50			481698	09/04/20 17:23	DAS	TAL SL
Total/NA	Prep	7471B			0.61 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:48	DCL	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE176-S-2-3-200806

Lab Sample ID: 600-209486-1

Date Collected: 08/06/20 14:35

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012B			0.537 g	6.0 mL	301619	08/19/20 16:06	AML	TAL HOU
Total/NA	Analysis	9012B		1			301634	08/19/20 22:20	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.501 g	50.0 mL	301626	08/19/20 16:29	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301633	08/19/20 20:44	AML	TAL HOU

Client Sample ID: CELL18-SQUARE154-S-2-3-200806

Lab Sample ID: 600-209486-2

Date Collected: 08/06/20 15:05

Matrix: Solid

Date Received: 08/07/20 09:20

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					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.03 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 21:17	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300861	08/11/20 08:50	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.04 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			353.3 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481711	09/08/20 14:00	SCB	TAL SL

Client Sample ID: CELL18-SQUARE154-S-2-3-200806

Lab Sample ID: 600-209486-2

Date Collected: 08/06/20 15:05

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.77 g	5 mL	300714	08/08/20 10:45	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	300707	08/08/20 14:26	WS1	TAL HOU
Total/NA	Prep	3546			15.09 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 13:37	TTD	TAL HOU
Total/NA	Prep	3546			15.07 g	1 mL	500496	08/17/20 09:48	SHB	TAL PEN
Total/NA	Analysis	8270D		1			500677	08/18/20 16:54	PP1	TAL PEN
Total/NA	Prep	5030B			9.45 g	10 mL	300708	08/08/20 07:14	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	300709	08/08/20 13:06	WS1	TAL HOU
Total/NA	Prep	3546			10.04 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 18:04	RJV	TAL HOU
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/11/20 23:44	JAL	TAL HOU
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1	1 mL	1.0 mL	300977	08/12/20 17:22	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 21:09	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 21:09	W1N	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE154-S-2-3-200806

Lab Sample ID: 600-209486-2

Date Collected: 08/06/20 15:05

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	6860			10.22 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 15:18	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.494 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 13:31	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5695 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			479582	08/14/20 20:00	FLC	TAL SL
Total/NA	Prep	3050B			0.5695 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		50			481698	09/04/20 17:33	DAS	TAL SL
Total/NA	Prep	7471B			0.64 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:50	DCL	TAL HOU
Total/NA	Prep	9012B			0.523 g	6.0 mL	301619	08/19/20 16:06	AML	TAL HOU
Total/NA	Analysis	9012B		1			301634	08/19/20 22:20	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.500 g	50.0 mL	301626	08/19/20 16:29	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301633	08/19/20 20:45	AML	TAL HOU

Client Sample ID: CELL19-SQUARE62-S-2-3-200806

Lab Sample ID: 600-209486-3

Date Collected: 08/06/20 15:39

Matrix: Solid

Date Received: 08/07/20 09:20

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					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.15 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 21:40	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300861	08/11/20 08:50	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.19 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			348.9 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481708	09/08/20 15:03	SCB	TAL SL

Client Sample ID: CELL19-SQUARE62-S-2-3-200806

Lab Sample ID: 600-209486-3

Date Collected: 08/06/20 15:39

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.80 g	5 mL	300714	08/08/20 10:45	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	300707	08/08/20 14:50	WS1	TAL HOU
Total/NA	Prep	3546			15.06 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 14:02	TTD	TAL HOU
Total/NA	Prep	3546			15.59 g	1 mL	500496	08/17/20 09:48	SHB	TAL PEN
Total/NA	Analysis	8270D		1			500677	08/18/20 18:09	PP1	TAL PEN
Total/NA	Prep	5030B			10.68 g	10 mL	300708	08/08/20 07:14	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	300709	08/08/20 13:31	WS1	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209486-1

Client Sample ID: CELL19-SQUARE62-S-2-3-200806

Lab Sample ID: 600-209486-3

Date Collected: 08/06/20 15:39

Matrix: Solid

Date Received: 08/07/20 09:20

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10.05 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 18:38	RJV	TAL HOU
Total/NA	Prep	3546			15.06 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/12/20 00:08	JAL	TAL HOU
Total/NA	Prep	3546			15.06 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			300977	08/12/20 17:47	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 21:30	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 21:30	W1N	TAL HOU
Total/NA	Prep	6860			10.21 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 15:38	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.293 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 13:40	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5486 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			479582	08/14/20 20:02	FLC	TAL SL
Total/NA	Prep	3050B			0.5486 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		50			481698	09/04/20 17:35	DAS	TAL SL
Total/NA	Prep	7471B			0.62 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:52	DCL	TAL HOU
Total/NA	Prep	9012B			0.550 g	6.0 mL	301619	08/19/20 16:06	AML	TAL HOU
Total/NA	Analysis	9012B		1			301634	08/19/20 22:21	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.502 g	50.0 mL	301626	08/19/20 16:29	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301633	08/19/20 20:46	AML	TAL HOU

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

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

Job ID: 600-209486-1

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-20-26	10-31-20
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
2540 C-1997		Solid	Total Dissolved Solids
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	C28-C36
8260B	5030B	Solid	1,3-Dichloropropene, Total
8270C LL	3546	Solid	1-Methylnaphthalene
8270C LL	3546	Solid	Atrazine
8270C LL	3546	Solid	Thiophene, tetrahydro-, 1,1-dioxide
9045D		Solid	pH

Laboratory: Eurofins TestAmerica, Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-21
Alaska (UST)	State	18-001	02-08-21
Arizona	State	AZ0713	12-20-20
Arkansas DEQ	State	19-047-0	06-01-21
California	State	2513	01-08-21
Connecticut	State	PH-0686	09-30-20
Florida	NELAP	E87667-57	07-01-21
Georgia	State	4025-011	01-09-21
Illinois	NELAP	2000172019-1	04-30-21
Iowa	State	IA#370	12-01-20
Kansas	NELAP	E-10166	04-30-21
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-21
Maine	State	2019011 (231)	03-03-21
Minnesota	NELAP	1788752	12-31-20
Nevada	State	CO000262020-1	07-31-21
New Hampshire	NELAP	205319	04-29-21
New Jersey	NELAP	190002	06-30-21
New York	NELAP	59923	04-01-21
North Carolina (WW/SW)	State	358	12-31-20
North Dakota	State	R-034	01-08-21
Oklahoma	State	2018-006	08-31-20
Oregon	NELAP	4025-011	01-08-21
Pennsylvania	NELAP	013	07-31-21
South Carolina	State	72002001	01-08-21
Texas	NELAP	T104704183-19-17	09-30-20
US Fish & Wildlife	US Federal Programs	058448	08-01-21
USDA	US Federal Programs	P330-18-00099	03-26-21
Utah	NELAP	QUAN5	06-30-13 *

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

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209486-1

Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, Denver (Continued)

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

Authority	Program	Identification Number	Expiration Date
Utah	NELAP	CO000262019-11	07-31-21
Virginia	NELAP	10490	06-14-21
Washington	State	C583-19	08-03-21
West Virginia DEP	State	354	11-30-20
Wisconsin	State	999615430	08-31-20
Wyoming (UST)	A2LA	2907.01	10-31-21

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-21
Kansas	NELAP	E-10253	10-31-20
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	09-30-20

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209486-1

Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, 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	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	09-13-20
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	09-14-20
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-20

Eurofins TestAmerica, Houston

Client Information		Lab PM		Carrier Tracking No(s)		COC No							
Client Contact Alison Schaffer Company ARCADIS U S, Inc. Address 630 Plaza Drive Suite 100 City Highlands Ranch State, Zip CO, 80129-2377 Phone 303-710-7537(Tel) Email Alison.Schaffer@arcadis.com Project Name Chevron - Jal Land Farm Soils Site Jal Land Farm		Sampler J. Steinmann E-Mail Sachin.Kudchadkar@Eurofinset.com		Kudchadkar, Sachin G Sachin Kudchadkar@Eurofinset.com		600-78203-21039-1 Page 1 of 1 Job #							
Due Date Requested: _____ TAT Requested (days): 5 PO # _____ WFO # _____ Project # 60012538 SSOW# _____ Analysis Requested Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 82608 - Volatiles 8270C - Semi-volatiles/ 8081 Pesticides/ 8082 PCB 8650 - Perchlorate-Ddenver-soil jar 4 oz 8330B - Denver - soil jar 4 oz PFC - Denver- plastic 16 oz jar 8270D - AgChem - Pensacola - soil jar 4 oz 2540C - Calcd - Local Method/ Moisture/ pH 9045 8015B - GRO 8015 - DRO/ORO GA-01 - ra - Rad 226/228 - St Louis - 2 plastic jars 16 9066 - Phenolics/ 9012 Cyanide 300 - Nitrate, Chloride, Sulfate, Fluoride 6020/7471 - St Louis - soil jar 4 oz Total Number of containers													
Sample Identification Cell 18 - Square 176 - S-2 - 3-200800 Cell 18 - Square 154 - S-2 - 3-200800 Cell 19 - Square 602 - S-2 - 3-200800 Temp Blank		Sample Date 8/6/20 8/6/20 8/6/20 —		Sample Time 1435 1505 1539 —		Sample Type (C=Comp, G=grab) G G G —		Matrix (W=water, S=solid, O=other) Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid		Preservation Code: G G G —		Special Instructions/Note: 600-209486 Chain of Custody 	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months													
Empty Kit Relinquished by: Relinquished by 													
Relinquished by 													
Relinquished by 													
Custody Seal No. ☐ Yes ☐ No		Relinquished by 		Relinquished by 		Relinquished by							
Relinquished by		Relinquished by		Relinquished by		Relinquished by							
Relinquished by		Relinquished by		Relinquished by		Relinquished by							
Relinquished by		Relinquished by		Relinquished by		Relinquished by							
Relinquished by		Relinquished by		Relinquished by		Relinquished by							
Relinquished by		Relinquished by		Relinquished by		Relinquished by							
Relinquished by		Relinquished by		Relinquished by		Relinquished by							
Relinquished by		Relinquished by		Relinquished by		Relinquished by							
Relinquished by		Relinquished by											

Eurofins TestAmerica Houston

Loc: 600
209486Environment Testing
TestAmerica

Sample Receipt Checklist

209486 7 3:20

JOB NUMBER: _____

Date/Time Received: _____

CLIENT: _____

UNPACKED BY: _____

CARRIER/DRIVER: _____

Custody Seal Present: ☒ YES ☐ NO

Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
3190	Y / N	Y / N	2.9	680	+0.1	3.0
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒ YES ☐ NOLABORATORY PRESERVATION OF SAMPLES REQUIRED: ☒ NO ☐ YESBase samples are >pH 12: ☐ YES ☐ NOAcid preserved are <pH 2: ☐ YES ☐ NOTX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot # _____

VOA headspace acceptable (5-6mm): ☐ YES ☐ NO ☒ NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

☒ YES ☐ NO

COMMENTS:

8/7/20

Eurofins TestAmerica, Houston
6310 Railway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record



eurofins

Environment Testing
America

Client Information (Sub Contract Lab)								
Sampler:	Lab PM	Kudchadkar, Sachin G	Carrier Tracking No(s)	COC No: 600-45922.1				
Phone#	E-Mail	Sachin.Kudchadkar@Eurofinsel.com Texas	State of Origin:	Page: Page 1 of 1				
Company		NELAP - Texas	Accreditations Required (See note)	Job # 600-209486-1				
Address:		Preservation Codes:						
City:	Due Date Requested:							
Earth City	TAT Requested (days):							
Mt., Zip	P.O.#:							
MO, 63045	WO #:							
Project Name:	Project #:							
Chevron - Jal Land Farm Soils	60012538							
Site:	SSOW#:							
Sample Identification - Client ID (Lab ID)		Special Instructions/Note:						
CELL 18-SQUARE176-S-2-3-200806 (600-209486-1)	Sample Date	Sample Time	Sample Type (C=comp, G=grab) ST-Tissue, A&A/P	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_RaByr_Grind (MOD) Radium-226/228	Total Number of containers	Other:
	8/6/20	14:35 Central	Solid	X	X	X	3	
CELL 18-SQUARE154-S-2-3-200806 (600-209486-2)	8/6/20	15:05 Central	Solid	X	X	X	(2)-3 rec'd @ ETASTL	
CELL 19-SQUARE62-S-2-3-200806 (600-209486-3)	8/6/20	15:39 Central	Solid	X	X	X	3	
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Test America.								
Possible Hazard Identification								
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2								
Empty Kit Relinquished by:								
Inquired by: <i>[Signature]</i>	Date: 8/10/20	Time: 13:00	Company: FE	Received by: FE	Date/Time: 8/11/20 9:18	Company: ETASTL	Cooler Temperature(s) °C and Other Remarks:	
Inquired by: FE	Date/Time:		Company:	Received by:	Date/Time:	Company:		
Inquired by:	Date/Time:		Company:	Received by:	Date/Time:	Company:		
Custody Seal Intact: Yes Δ No Δ								

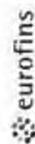
Eurofins TestAmerica, Houston

6310 Rothway Street

Houston, TX 77040

Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

Environment Testing
America

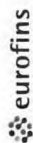
Client Information (Sub Contract Lab)		Lab P/N: Kuchadkar, Sachin G		Carrier Tracking No(s)		COC No: 600-45917.1					
Client Contact: Shipping/Receiving		E-Mail: Sachin.Kuchadkar@Eurofins.com		State of Origin: Texas		Page: Page 1 of 1					
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #		600-209486-1					
Address: 4955 Yarrow Street,		Due Date Requested: 8/25/2020		Analysis Requested		Preservation Codes:					
City: Anvada		TAT Requested (days):				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:					
State Zip: CO, 80002		PO #:				M - Hexane N - None O - AsNO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)					
Phone: 303-736-0100(Tel) 303-431-7171(Fax)		WO #:									
Email:		Project #:									
Project Name: Chevron - Jal Land Farm Soils		SSOW#:									
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)	6860/6860 Prep Standard 6860 list	PFC/PFC Leach (MOD) Custom List	8308/SM, AC (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
CELL18-SQUARE176-S-2-3-200806 (600-209486-1)	8/6/20	14:35 Central	Solid		X	X	X	X	X	3	
CELL18-SQUARE154-S-2-3-200806 (600-209486-2)	8/6/20	15:05 Central	Solid		X	X	X	X	X	3	
CELL19-SQUARE62-S-2-3-200806 (600-209486-3)	8/6/20	15:39 Central	Solid		X	X	X	X	X	3	
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontracted 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica											
Possible Hazard Identification											
Unconfirmed											
Deliverable Requested: I, II, III, IV, Other (specify)											
Primary Deliverable Rank: 2											
Empty Kit Relinquished by:											
Relinquished by: <i>Sandra Jones</i> Date/Time: 8/10/20 13:00 ETA Company: <i>ETA</i>											
Relinquished by: Date/Time: Company:											
Relinquished by: Date/Time: Company:											
Custody Seals Intact: Custody Seal No.:											
Cooler Temperature(s) °C and Other Remarks: 5.6, 1.9, 18.0, -0.1, D5 8-11-20											

Ver: 01/16/2019

Eurofins TestAmerica, Houston

6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

Environment Testing
America

Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 3355 McLemore Drive, Pensacola, FL 32514 Phone: 850-474-1001(Tel) 850-478-2671(Fax) Email: Project Name: Chevron - Jal Land Farm Soils Site:		Lab PM: Kudchadkar, Sachin G E-Mail: Sachin.Kudchadkar@Eurofins.com Accreditations Required (See note): NELAP - Texas	Carrier Tracking No(s): 600-45918.1 State of Origin: Texas Page: Page 1 of 1 Job #: 600-209486-1
Analysis Requested Due Date Requested: 8/25/2020 TAT Requested (days): PO #: WO #: Project #: 60012538 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: 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)	
Sample Identification - Client ID (Lab ID) CELL 18-SQUARE176-S-2-3-200806 (600-209486-1) CELL 18-SQUARE154-S-2-3-200806 (600-209486-2) CELL 19-SQUARE62-S-2-3-200806 (600-209486-3)		Total Number of containers 1 1 1	
Sample Date 8/6/20 8/6/20 8/6/20		Sample Time 14:35 Central 15:05 Central 15:39 Central	
Sample Type (C=Comp, G=grab) Solid Solid Solid		Matrix (W=Water, S=Soil, O=Organic, I=Inorganic) Solid Solid Solid	
Field Filtered Sample (Yes or No) X X X		Perform MS/MSD (Yes or No) X X X	
8270D_mgChem/3546 (MOD) Copy Analytes X X X		Special Instructions/Note: X X X	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <i>Sandra Jerez</i> Date/Time: 8/10/20 13:00 EDT		Received by: _____ Date/Time: _____	
Relinquished by: _____ Date/Time: _____		Received by: _____ Date/Time: _____	
Relinquished by: _____ Date/Time: _____		Received by: <i>Shubh</i> Date/Time: 8-12-20 0920	
Custody Seals Intact: ☐ Yes ☒ No		Cooler Temperature(s) °C and Other Remarks: 6.5°C IR-7	

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-209486-1

Login Number: 209486

List Source: Eurofins TestAmerica, Houston

List Number: 1

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	3.0
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.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-209486-1

Login Number: 209486

List Number: 3

Creator: Schade, Daniel B

List Source: Eurofins TestAmerica, Denver

List Creation: 08/11/20 02:31 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.	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").	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: 600-209486-1

Login Number: 209486

List Number: 4

Creator: Whitley, Adrian

List Source: Eurofins TestAmerica, Pensacola

List Creation: 08/12/20 05:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1075430
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.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	6.5°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: 600-209486-1

Login Number: 209486

List Number: 2

Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/11/20 01:13 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	



Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-209488-1

Client Project/Site: Chevron - Jal Land Farm Soils

For:

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

Attn: Alison Schaffer

Authorized for release by:
9/15/2020 10:48:24 AM

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

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-209488-1

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Case Narrative

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

Job ID: 600-209488-1

Job ID: 600-209488-1**Laboratory: Eurofins TestAmerica, Houston****Narrative****Job Narrative
600-209488-1****Comments**

No additional comments.

Receipt

The samples were received on 8/8/2020 10:05 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8° C.

GC/MS VOA

Method 8260B: The method blank for analytical batch 600-301050 contained Chloroform 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.

GC/MS Semi VOA

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301300 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301300/3).

Method 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 600-300979 and analytical batch 600-301300 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301390 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 600-301390/2).

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301390 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301390/3).

Method 8270C LL: The method blank for preparation batch 600-301327 and analytical batch 600-301390 contained Di (2-ethylhexyl)phthalate 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 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 600-301327 and analytical batch 600-301390 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301550 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301550/3).

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

GC VOA

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

GC Semi VOA

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

RAD

Method GA-01-R: Gamma Prep Batch 160-479981

Case Narrative

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

Job ID: 600-209488-1

Job ID: 600-209488-1 (Continued)**Laboratory: Eurofins TestAmerica, Houston (Continued)**

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
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.

CELL20-SQUARE154-S-2-3-200807 (600-209488-1), CELL21-SQUARE21-S-2-3-200807 (600-209488-2),
CELL21-SQUARE61-S-2-3-200807 (600-209488-3), (600-209483-G-1-B) and (600-209483-G-1-C DU)

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

Metals

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-481632 and analytical batch 160-481844 were outside control limits for Antimony. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (600-209488-G-1-B MS ^20) and (600-209488-G-1-C MSD ^20)

Method 6020: Due to the high concentration of Barium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-481632 and analytical batch 160-481844 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (600-209488-G-1-B MS ^20) and (600-209488-G-1-C MSD ^20)

Method 6020: preparation batch 160-481632 and analytical batch 160-481844

The post digestion spike % recovery for Barium was outside of control limits due to high concentrations of target analytes in the native sample (600-209488-G-1-A PDS ^20)

Method 6020: preparation batch 160-481632 and analytical batch 160-481844

The following samples were diluted due to the abundance of non-target analytes: CELL20-SQUARE154-S-2-3-200807 (600-209488-1), CELL21-SQUARE21-S-2-3-200807 (600-209488-2), CELL21-SQUARE61-S-2-3-200807 (600-209488-3), (600-209488-G-1-B MS ^20), (600-209488-G-1-C MSD ^20), (600-209488-G-1-A PDS ^20) and (600-209488-G-1-A SD ^100). Elevated reporting limits (RLs) are provided.

Case Narrative

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

Job ID: 600-209488-1

Job ID: 600-209488-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

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

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

Industrial Hygiene

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

Organic Prep

Methods Increment, prep: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client/PM request, the subsampling procedure was not performed on these samples.

CELL20-SQUARE154-S-2-3-200807 (600-209488-1), CELL21-SQUARE21-S-2-3-200807 (600-209488-2) and CELL21-SQUARE61-S-2-3-200807 (600-209488-3)

In preparation batch 280-505294 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: CELL20-SQUARE154-S-2-3-200807 (600-209488-1), CELL21-SQUARE21-S-2-3-200807 (600-209488-2) and CELL21-SQUARE61-S-2-3-200807 (600-209488-3). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet.

In preparation batch 280-505294 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B

Method PFC leach: The following samples were full of rocks and gravel. Aliquoting 10g of soil material was difficult.

CELL20-SQUARE154-S-2-3-200807 (600-209488-1), CELL21-SQUARE21-S-2-3-200807 (600-209488-2) and CELL21-SQUARE61-S-2-3-200807 (600-209488-3)

preparation batch 280-505864

PFC_Leach / PFC

Method PFC leach: The following samples required 2mL of 2.4M HCl to bring the pH below 7. CELL20-SQUARE154-S-2-3-200807 (600-209488-1), CELL21-SQUARE21-S-2-3-200807 (600-209488-2) and CELL21-SQUARE61-S-2-3-200807 (600-209488-3)

preparation batch 280-505864

PFC_Leach / PFC

Method 3546: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: CELL21-SQUARE21-S-2-3-200807 (600-209488-2) and CELL21-SQUARE61-S-2-3-200807 (600-209488-3). The reporting limits (RLs) have been adjusted proportionately.

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

Method Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209488-1

Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
8270D	Pesticides by GC/MS	SW846	TAL PEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
8081A	Organochlorine Pesticides (GC)	SW846	TAL HOU
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL HOU
2540 C-1997	Total Dissolved Solids (Dried at 180 °C)	SM	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
9012B	Cyanide, Total and/or Amenable	SW846	TAL HOU
9045D	pH	SW846	TAL HOU
9066	Phenolics (Colorimetric, 4-AAP with Distillation)	SW846	TAL HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
3050B	Preparation, Metals	SW846	TAL SL
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
3546	Microwave Extraction	SW846	TAL PEN
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471B	Mercury in Solid or Semi-Solid Waste (Manual Cold Vapor Technique)/Preparation	SW846	TAL HOU
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU
Distill/Phenol	Distillation, Phenolics	None	TAL HOU
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"

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

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.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Houston

Sample Summary

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

Job ID: 600-209488-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Solid	08/07/20 13:55	08/08/20 10:05	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Solid	08/07/20 14:24	08/08/20 10:05	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Solid	08/07/20 14:55	08/08/20 10:05	

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209488-1

Client Sample ID: CELL20-SQUARE154-S-2-3-200807

Lab Sample ID: 600-209488-1

Date Collected: 08/07/20 13:55

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.04	U	12.3	2.04	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Vinyl chloride	1.10	U	12.3	1.10	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Bromomethane	1.02	U	12.3	1.02	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Trichlorofluoromethane	0.810	U	12.3	0.810	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Acrolein	7.65	U	30.7	7.65	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
1,1-Dichloroethene	1.50	U	6.14	1.50	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
trans-1,2-Dichloroethene	1.40	U	6.14	1.40	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Methyl tert-butyl ether	2.25	U	6.14	2.25	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Methylene Chloride	2.69	U	12.3	2.69	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Acrylonitrile	7.14	U	61.4	7.14	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
cis-1,2-Dichloroethene	1.02	U	6.14	1.02	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Carbon tetrachloride	1.39	U	6.14	1.39	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Benzene	0.773	U	6.14	0.773	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
1,2-Dichloroethane	1.10	U	6.14	1.10	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Trichloroethene	1.72	U	6.14	1.72	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
1,1,1-Trichloroethane	0.908	U	6.14	0.908	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
1,1-Dichloroethane	1.07	U	6.14	1.07	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
1,2-Dichloropropane	0.872	U	6.14	0.872	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
1,4-Dioxane	76.2	U	614	76.2	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Chloroform	2.37	J b	12.3	0.810	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Bromodichloromethane	0.810	U	6.14	0.810	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
1,1-Dichloropropene	0.798	U	6.14	0.798	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
cis-1,3-Dichloropropene	0.663	U	6.14	0.663	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Toluene	1.69	U	6.14	1.69	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
trans-1,3-Dichloropropene	0.712	U	6.14	0.712	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
1,1,2-Trichloroethane	0.896	U	6.14	0.896	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Tetrachloroethene	0.872	U	6.14	0.872	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
1,3-Dichloropropene, Total	0.712	U	6.14	0.712	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
1,2-Dibromoethane	1.25	U	6.14	1.25	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Monochlorobenzene	1.18	U	6.14	1.18	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Ethylbenzene	1.25	U	6.14	1.25	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Xylenes, Total	1.39	U	6.14	1.39	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Styrene	0.872	U	6.14	0.872	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Tribromomethane	1.68	U	6.14	1.68	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
1,1,2,2-Tetrachloroethane	1.07	U	6.14	1.07	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
1,4-Dichlorobenzene	0.810	U	6.14	0.810	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
1,2-Dichlorobenzene	0.982	U	6.14	0.982	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
1,2,4-Trichlorobenzene	2.42	U	6.14	2.42	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1
Dichlorodifluoromethane	1.89	U	6.14	1.89	ug/Kg	☆	08/12/20 11:03	08/13/20 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		61 - 130	08/12/20 11:03	08/13/20 12:47	1
Dibromofluoromethane	88		68 - 140	08/12/20 11:03	08/13/20 12:47	1
Toluene-d8 (Surr)	93		50 - 130	08/12/20 11:03	08/13/20 12:47	1
4-Bromofluorobenzene	107		57 - 140	08/12/20 11:03	08/13/20 12:47	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.73	U	37.6	4.73	ug/Kg	☆	08/17/20 09:22	08/18/20 00:07	1
N-Nitrosodiethylamine	8.11	U	37.6	8.11	ug/Kg	☆	08/17/20 09:22	08/18/20 00:07	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209488-1

Client Sample ID: CELL20-SQUARE154-S-2-3-200807

Lab Sample ID: 600-209488-1

Date Collected: 08/07/20 13:55

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	1.86	U	37.6	1.86	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Hexachloroethane	2.61	U	37.6	2.61	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
N-Nitrosopyrrolidine	5.27	U	37.6	5.27	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Nitrobenzene	3.34	U	37.6	3.34	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Isophorone	1.13	U	37.6	1.13	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
2,4-Dichlorophenol	4.37	U	37.6	4.37	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Naphthalene	1.52	U	37.6	1.52	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Hexachlorobutadiene	2.17	U	37.6	2.17	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
N-Nitrosodi-n-butylamine	18.8	U	37.6	18.8	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
2-Methylnaphthalene	3.09	U	37.6	3.09	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
1-Methylnaphthalene	1.77	U	37.6	1.77	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
1,2,4,5-Tetrachlorobenzene	7.62	U	37.6	7.62	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Hexachlorocyclopentadiene	5.20	U	37.6	5.20	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
2,4,6-Trichlorophenol	3.03	U	37.6	3.03	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
2,4,5-Trichlorophenol	11.3	U	37.6	11.3	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Dimethyl phthalate	5.52	U	75.3	5.52	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Acenaphthylene	1.13	U	37.6	1.13	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
2,6-Dinitrotoluene	3.33	U	37.6	3.33	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Acenaphthene	1.63	U	37.6	1.63	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Dinitrophenols	5.33	U	113	5.33	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Pentachlorobenzene	4.53	U	37.6	4.53	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
2,4-Dinitrotoluene	4.08	U	37.6	4.08	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Diethyl phthalate	9.52	U	75.3	9.52	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Fluorene	2.66	U	37.6	2.66	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Dinitro-o-cresol	5.62	U	192	5.62	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
N-Nitrosodiphenylamine	2.13	U	37.6	2.13	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Diphenylhydrazine, 1,2-	1.83	U	37.6	1.83	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Hexachlorobenzene	1.72	U	37.6	1.72	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Atrazine	5.67	U	37.6	5.67	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Pentachlorophenol	4.52	U	189	4.52	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Phenanthrene	5.59	U	37.6	5.59	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Anthracene	1.45	U	37.6	1.45	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Dibutylphthalate	10.8	J	75.3	2.92	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Fluoranthene	3.51	U	37.6	3.51	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Benzidine	10.2	U	373	10.2	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Pyrene	2.07	U	37.6	2.07	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Dichlorobenzidine, 3,3'-	11.5	U	37.6	11.5	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Benzo[a]anthracene	1.56	U	37.6	1.56	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Di (2-ethylhexyl)phthalate	25.8	J b	37.6	6.06	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Chrysene	1.15	U	37.6	1.15	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Benzo[b]fluoranthene	1.94	U	37.6	1.94	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Benzo[k]fluoranthene	1.68	U	37.6	1.68	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Benzo[a]pyrene	1.82	U	37.6	1.82	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Indeno[1,2,3-cd]pyrene	3.95	U	37.6	3.95	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Dibenz(a,h)anthracene	4.10	U	37.6	4.10	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Benzo[g,h,i]perylene	5.72	U	37.6	5.72	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
bis (2-chloroisopropyl) ether	9.98	U	37.6	9.98	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1
Thiophene, tetrahydro-, 1,1-dioxide	18.8	U	37.6	18.8	ug/Kg	✱	08/17/20 09:22	08/18/20 00:07	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209488-1

Client Sample ID: CELL20-SQUARE154-S-2-3-200807

Lab Sample ID: 600-209488-1

Date Collected: 08/07/20 13:55

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	72		10 - 148	08/17/20 09:22	08/18/20 00:07	1
2-Fluorobiphenyl	68		38 - 130	08/17/20 09:22	08/18/20 00:07	1
2-Fluorophenol	65		25 - 132	08/17/20 09:22	08/18/20 00:07	1
Nitrobenzene-d5	66		10 - 155	08/17/20 09:22	08/18/20 00:07	1
Terphenyl-d14	95		53 - 134	08/17/20 09:22	08/18/20 00:07	1
Phenol-d5 (Surr)	66		27 - 130	08/17/20 09:22	08/18/20 00:07	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.5	U	74.2	13.5	ug/Kg	☼	08/18/20 13:26	08/20/20 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	72		30 - 164				08/18/20 13:26	08/20/20 18:29	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.940	J	1.10	0.647	mg/Kg	☼	08/08/20 15:03	08/13/20 11:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		70 - 130				08/08/20 15:03	08/13/20 11:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.94	U	5.66	1.94	mg/Kg	☼	08/13/20 07:17	08/15/20 11:36	1
C28-C36	5.66	U	5.66	5.66	mg/Kg	☼	08/13/20 07:17	08/15/20 11:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	130		60 - 140				08/13/20 07:17	08/15/20 11:36	

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.48	U	1.92	1.48	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Hexachlorocyclohexane, beta-	1.15	U	1.92	1.15	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Hexachlorocyclohexane, delta-	0.958	U	1.92	0.958	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Hexachlorocyclohexane, alpha-	1.13	U	1.92	1.13	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Hexachlorocyclohexane, gamma-	1.05	U	1.92	1.05	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Chlordane (technical)	26.4	U	84.6	26.4	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
DDT	2.09	U	3.72	2.09	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Dieldrin	1.57	U	3.72	1.57	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Endosulfan I	1.13	U	1.92	1.13	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Endosulfan II	1.70	U	3.72	1.70	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Endosulfan sulfate	1.89	U	3.72	1.89	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Endrin	1.73	U	3.72	1.73	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Endrin aldehyde	1.76	U	3.72	1.76	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Heptachlor	1.05	U	1.92	1.05	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Heptachlor epoxide	1.32	U	1.92	1.32	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Toxaphene	82.4	U	192	82.4	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	79		47 - 150				08/18/20 05:27	08/24/20 14:08	1
Tetrachloro-m-xylene	73		50 - 143				08/18/20 05:27	08/24/20 14:08	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209488-1

Client Sample ID: CELL20-SQUARE154-S-2-3-200807

Lab Sample ID: 600-209488-1

Date Collected: 08/07/20 13:55

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00180	U	0.0188	0.00180	mg/Kg	☆	08/18/20 05:27	08/19/20 14:50	1
PCB-1221	0.00973	U	0.0188	0.00973	mg/Kg	☆	08/18/20 05:27	08/19/20 14:50	1
PCB-1232	0.00755	U	0.0188	0.00755	mg/Kg	☆	08/18/20 05:27	08/19/20 14:50	1
PCB-1242	0.00140	U	0.0188	0.00140	mg/Kg	☆	08/18/20 05:27	08/19/20 14:50	1
PCB-1248	0.00281	U	0.0188	0.00281	mg/Kg	☆	08/18/20 05:27	08/19/20 14:50	1
PCB-1254	0.00249	U	0.0188	0.00249	mg/Kg	☆	08/18/20 05:27	08/19/20 14:50	1
PCB-1260	0.0152	U	0.0188	0.0152	mg/Kg	☆	08/18/20 05:27	08/19/20 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		10 - 150	08/18/20 05:27	08/19/20 14:50	1
DCB Decachlorobiphenyl	90		10 - 150	08/18/20 05:27	08/19/20 14:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.6		4.54	0.606	mg/Kg	☆		08/11/20 21:50	1
Nitrate as N	12.5		2.27	0.285	mg/Kg	☆		08/11/20 21:50	1
Fluoride	7.56		2.27	0.682	mg/Kg	☆		08/11/20 21:50	1
Nitrite as N	0.337	U	2.27	0.337	mg/Kg	☆		08/11/20 21:50	1
Sulfate	270		5.67	1.09	mg/Kg	☆		08/11/20 21:50	1

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0212	U	0.0932	0.0212	mg/Kg		08/12/20 15:04	08/13/20 22:03	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0401	U	0.186	0.0401	mg/Kg		08/12/20 15:04	08/13/20 22:03	1
2,4,6-Trinitrotoluene	0.0286	U	0.0932	0.0286	mg/Kg		08/12/20 15:04	08/13/20 22:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	102		83 - 122	08/12/20 15:04	08/13/20 22:03	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.396	J	0.550	0.0907	ug/Kg	☆	08/12/20 11:00	08/20/20 15:43	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.245	U	0.851	0.245	ug/Kg	☆	08/17/20 14:49	08/24/20 13:49	1
Perfluorohexanesulfonic acid (PFHxS)	0.298	U	0.851	0.298	ug/Kg	☆	08/17/20 14:49	08/24/20 13:49	1
Perfluorooctanesulfonic acid (PFOS)	0.149	U	0.851	0.149	ug/Kg	☆	08/17/20 14:49	08/24/20 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	08/17/20 14:49	08/24/20 13:49	1
13C8 PFOS	93		70 - 130	08/17/20 14:49	08/24/20 13:49	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.802	U	2.14	0.802	mg/Kg	☆	09/04/20 10:33	09/09/20 19:14	20
Arsenic	4.39	J	10.7	4.28	mg/Kg	☆	09/04/20 10:33	09/09/20 19:14	20
Barium	477		21.4	5.34	mg/Kg	☆	09/04/20 10:33	09/09/20 19:14	20
Beryllium	0.428	U	1.07	0.428	mg/Kg	☆	09/04/20 10:33	09/09/20 19:14	20
Cadmium	0.257	U	0.534	0.257	mg/Kg	☆	09/04/20 10:33	09/09/20 19:14	20
Chromium	4.81	U	10.7	4.81	mg/Kg	☆	09/04/20 10:33	09/09/20 19:14	20

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209488-1

Client Sample ID: CELL20-SQUARE154-S-2-3-200807

Lab Sample ID: 600-209488-1

Date Collected: 08/07/20 13:55

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.2

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1170		128	64.1	mg/Kg	☆	09/04/20 10:33	09/09/20 19:14	20
Copper	4.28	U	10.7	4.28	mg/Kg	☆	09/04/20 10:33	09/09/20 19:14	20
Manganese	6.07		5.34	2.14	mg/Kg	☆	09/04/20 10:33	09/09/20 19:14	20
Lead	1.34	U	3.21	1.34	mg/Kg	☆	09/04/20 10:33	09/09/20 19:14	20
Antimony	2.14	U	5.34	2.14	mg/Kg	☆	09/04/20 10:33	09/09/20 19:14	20
Selenium	3.42	U	5.34	3.42	mg/Kg	☆	09/04/20 10:33	09/09/20 19:14	20
Thallium	2.14	U	5.34	2.14	mg/Kg	☆	09/04/20 10:33	09/09/20 19:14	20
Zinc	21.4	U	53.4	21.4	mg/Kg	☆	09/04/20 10:33	09/09/20 19:14	20
Uranium	0.428	U	1.07	0.428	mg/Kg	☆	09/04/20 10:33	09/09/20 19:14	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00399	U	0.0190	0.00399	mg/Kg	☆	09/02/20 13:16	09/03/20 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.8		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	88.2		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0198	U	0.132	0.0198	mg/Kg	☆	08/20/20 13:55	08/20/20 17:42	1
pH	8.9	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.473	U	0.564	0.473	mg/Kg	☆	08/20/20 12:06	08/20/20 15:58	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	165		10.0	10.0	mg/L			08/17/20 11:57	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	0.620		0.156	0.169	1.00	0.119	pCi/g	08/20/20 11:47	09/12/20 11:07	1
Radium-228	-0.0659	U	0.265	0.265		0.405	pCi/g	08/20/20 11:47	09/12/20 11:07	1
Combined Radium 226 + 228	0.554		0.308	0.314		0.405	pCi/g	08/20/20 11:47	09/12/20 11:07	1

Client Sample ID: CELL21-SQUARE21-S-2-3-200807

Lab Sample ID: 600-209488-2

Date Collected: 08/07/20 14:24

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 91.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.87	U	11.3	1.87	ug/Kg	☆	08/12/20 11:03	08/13/20 13:11	1
Vinyl chloride	1.01	U	11.3	1.01	ug/Kg	☆	08/12/20 11:03	08/13/20 13:11	1
Bromomethane	0.935	U	11.3	0.935	ug/Kg	☆	08/12/20 11:03	08/13/20 13:11	1
Trichlorofluoromethane	0.744	U	11.3	0.744	ug/Kg	☆	08/12/20 11:03	08/13/20 13:11	1
Acrolein	7.02	U	28.2	7.02	ug/Kg	☆	08/12/20 11:03	08/13/20 13:11	1
1,1-Dichloroethene	1.38	U	5.64	1.38	ug/Kg	☆	08/12/20 11:03	08/13/20 13:11	1
trans-1,2-Dichloroethene	1.28	U	5.64	1.28	ug/Kg	☆	08/12/20 11:03	08/13/20 13:11	1
Methyl tert-butyl ether	2.06	U	5.64	2.06	ug/Kg	☆	08/12/20 11:03	08/13/20 13:11	1
Methylene Chloride	3.16	J	11.3	2.47	ug/Kg	☆	08/12/20 11:03	08/13/20 13:11	1
Acrylonitrile	6.56	U	56.4	6.56	ug/Kg	☆	08/12/20 11:03	08/13/20 13:11	1

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Client Sample Results

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

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE21-S-2-3-200807

Lab Sample ID: 600-209488-2

Date Collected: 08/07/20 14:24

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.935	U	5.64	0.935	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
Carbon tetrachloride	1.27	U	5.64	1.27	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
Benzene	0.999	J	5.64	0.710	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
1,2-Dichloroethane	1.01	U	5.64	1.01	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
Trichloroethene	1.58	U	5.64	1.58	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
1,1,1-Trichloroethane	0.834	U	5.64	0.834	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
1,1-Dichloroethane	0.981	U	5.64	0.981	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
1,2-Dichloropropane	0.800	U	5.64	0.800	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
1,4-Dioxane	70.0	U	564	70.0	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
Chloroform	2.23	J b	11.3	0.744	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
Bromodichloromethane	0.744	U	5.64	0.744	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
1,1-Dichloropropene	0.733	U	5.64	0.733	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
cis-1,3-Dichloropropene	0.609	U	5.64	0.609	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
Toluene	1.56	U	5.64	1.56	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
trans-1,3-Dichloropropene	0.654	U	5.64	0.654	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
1,1,2-Trichloroethane	0.823	U	5.64	0.823	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
Tetrachloroethene	0.800	U	5.64	0.800	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
1,3-Dichloropropene, Total	0.654	U	5.64	0.654	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
1,2-Dibromoethane	1.15	U	5.64	1.15	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
Monochlorobenzene	1.08	U	5.64	1.08	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
Ethylbenzene	1.15	U	5.64	1.15	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
Xylenes, Total	1.27	U	5.64	1.27	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
Styrene	0.800	U	5.64	0.800	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
Tribromomethane	1.54	U	5.64	1.54	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
1,1,2,2-Tetrachloroethane	0.981	U	5.64	0.981	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
1,4-Dichlorobenzene	0.744	U	5.64	0.744	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
1,2-Dichlorobenzene	0.902	U	5.64	0.902	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
1,2,4-Trichlorobenzene	2.22	U	5.64	2.22	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
Dichlorodifluoromethane	1.74	U	5.64	1.74	ug/Kg	✱	08/12/20 11:03	08/13/20 13:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		61 - 130				08/12/20 11:03	08/13/20 13:11	1
Dibromofluoromethane	87		68 - 140				08/12/20 11:03	08/13/20 13:11	1
Toluene-d8 (Surr)	86		50 - 130				08/12/20 11:03	08/13/20 13:11	1
4-Bromofluorobenzene	107		57 - 140				08/12/20 11:03	08/13/20 13:11	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.56	U	36.2	4.56	ug/Kg	✱	08/12/20 11:16	08/17/20 20:28	1
N-Nitrosodiethylamine	7.81	U	36.2	7.81	ug/Kg	✱	08/12/20 11:16	08/17/20 20:28	1
Bis(2-chloroethyl)ether	1.80	U	36.2	1.80	ug/Kg	✱	08/12/20 11:16	08/17/20 20:28	1
Hexachloroethane	2.51	U	36.2	2.51	ug/Kg	✱	08/12/20 11:16	08/17/20 20:28	1
N-Nitrosopyrrolidine	5.08	U	36.2	5.08	ug/Kg	✱	08/12/20 11:16	08/17/20 20:28	1
Nitrobenzene	3.22	U	36.2	3.22	ug/Kg	✱	08/12/20 11:16	08/17/20 20:28	1
Isophorone	1.09	U	36.2	1.09	ug/Kg	✱	08/12/20 11:16	08/17/20 20:28	1
2,4-Dichlorophenol	4.21	U	36.2	4.21	ug/Kg	✱	08/12/20 11:16	08/17/20 20:28	1
Naphthalene	1.47	U	36.2	1.47	ug/Kg	✱	08/12/20 11:16	08/17/20 20:28	1
Hexachlorobutadiene	2.09	U	36.2	2.09	ug/Kg	✱	08/12/20 11:16	08/17/20 20:28	1
N-Nitrosodi-n-butylamine	18.1	U	36.2	18.1	ug/Kg	✱	08/12/20 11:16	08/17/20 20:28	1
2-Methylnaphthalene	2.98	U	36.2	2.98	ug/Kg	✱	08/12/20 11:16	08/17/20 20:28	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE21-S-2-3-200807

Lab Sample ID: 600-209488-2

Date Collected: 08/07/20 14:24

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 91.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	1.71	U	36.2	1.71	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
1,2,4,5-Tetrachlorobenzene	7.35	U	36.2	7.35	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Hexachlorocyclopentadiene	5.02	U	36.2	5.02	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
2,4,6-Trichlorophenol	2.92	U	36.2	2.92	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
2,4,5-Trichlorophenol	10.9	U	36.2	10.9	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Dimethyl phthalate	5.32	U	72.6	5.32	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Acenaphthylene	1.09	U	36.2	1.09	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
2,6-Dinitrotoluene	3.21	U	36.2	3.21	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Acenaphthene	1.57	U	36.2	1.57	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Dinitrophenols	5.14	U	109	5.14	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Pentachlorobenzene	4.36	U	36.2	4.36	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
2,4-Dinitrotoluene	3.93	U	36.2	3.93	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Diethyl phthalate	9.17	U	72.6	9.17	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Fluorene	2.57	U	36.2	2.57	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Dinitro-o-cresol	5.42	U	185	5.42	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
N-Nitrosodiphenylamine	2.06	U	36.2	2.06	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Diphenylhydrazine, 1,2-	1.76	U	36.2	1.76	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Hexachlorobenzene	1.65	U	36.2	1.65	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Atrazine	5.46	U	36.2	5.46	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Pentachlorophenol	4.35	U	182	4.35	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Phenanthrene	5.39	U	36.2	5.39	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Anthracene	1.39	U	36.2	1.39	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Dibutylphthalate	2.82	U	72.6	2.82	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Fluoranthene	3.38	U	36.2	3.38	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Benzidine	9.82	U	359	9.82	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Pyrene	1.99	U	36.2	1.99	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Dichlorobenzidine, 3,3'-	11.1	U	36.2	11.1	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Benzo[a]anthracene	1.50	U	36.2	1.50	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Di (2-ethylhexyl)phthalate	17.2	J	36.2	5.84	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Chrysene	1.11	U	36.2	1.11	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Benzo[b]fluoranthene	1.87	U	36.2	1.87	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Benzo[k]fluoranthene	1.62	U	36.2	1.62	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Benzo[a]pyrene	1.75	U	36.2	1.75	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Indeno[1,2,3-cd]pyrene	3.81	U	36.2	3.81	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Dibenz(a,h)anthracene	3.95	U	36.2	3.95	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Benzo[g,h,i]perylene	5.52	U	36.2	5.52	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
bis (2-chloroisopropyl) ether	9.62	U	36.2	9.62	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1
Thiophene, tetrahydro-, 1,1-dioxide	18.1	U	36.2	18.1	ug/Kg	☆	08/12/20 11:16	08/17/20 20:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	64		10 - 148	08/12/20 11:16	08/17/20 20:28	1
2-Fluorobiphenyl	81		38 - 130	08/12/20 11:16	08/17/20 20:28	1
2-Fluorophenol	77		25 - 132	08/12/20 11:16	08/17/20 20:28	1
Nitrobenzene-d5	77		10 - 155	08/12/20 11:16	08/17/20 20:28	1
Terphenyl-d14	102		53 - 134	08/12/20 11:16	08/17/20 20:28	1
Phenol-d5 (Surr)	65		27 - 130	08/12/20 11:16	08/17/20 20:28	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.0	U	71.7	13.0	ug/Kg	☆	08/18/20 13:26	08/20/20 18:54	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE21-S-2-3-200807

Lab Sample ID: 600-209488-2

Date Collected: 08/07/20 14:24

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 91.5

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	56		30 - 164				08/18/20 13:26	08/20/20 18:54	1
Method: 8015B - Gasoline Range Organics - (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.688	U	1.17	0.688	mg/Kg	☆	08/08/20 15:03	08/13/20 12:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	99		70 - 130				08/08/20 15:03	08/13/20 12:27	1
Method: 8015B - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.79	U	8.15	2.79	mg/Kg	☆	08/10/20 15:59	08/14/20 00:12	1
C28-C36	8.15	U	8.15	8.15	mg/Kg	☆	08/10/20 15:59	08/14/20 00:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	75		60 - 140				08/10/20 15:59	08/14/20 00:12	1
Method: 8081A - Organochlorine Pesticides (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.43	U	1.85	1.43	ug/Kg	☆	08/11/20 09:01	08/13/20 14:12	1
Hexachlorocyclohexane, beta-	1.11	U	1.85	1.11	ug/Kg	☆	08/11/20 09:01	08/13/20 14:12	1
Hexachlorocyclohexane, delta-	0.926	U	1.85	0.926	ug/Kg	☆	08/11/20 09:01	08/13/20 14:12	1
Hexachlorocyclohexane, alpha-	1.09	U	1.85	1.09	ug/Kg	☆	08/11/20 09:01	08/13/20 14:12	1
Hexachlorocyclohexane, gamma-	1.01	U	1.85	1.01	ug/Kg	☆	08/11/20 09:01	08/13/20 14:12	1
Chlordane (technical)	25.5	U	81.7	25.5	ug/Kg	☆	08/11/20 09:01	08/13/20 14:12	1
DDT	2.01	U	3.59	2.01	ug/Kg	☆	08/11/20 09:01	08/13/20 14:12	1
Dieldrin	1.51	U	3.59	1.51	ug/Kg	☆	08/11/20 09:01	08/13/20 14:12	1
Endosulfan I	1.09	U	1.85	1.09	ug/Kg	☆	08/11/20 09:01	08/13/20 14:12	1
Endosulfan II	1.64	U	3.59	1.64	ug/Kg	☆	08/11/20 09:01	08/13/20 14:12	1
Endosulfan sulfate	1.83	U	3.59	1.83	ug/Kg	☆	08/11/20 09:01	08/13/20 14:12	1
Endrin	1.67	U	3.59	1.67	ug/Kg	☆	08/11/20 09:01	08/13/20 14:12	1
Endrin aldehyde	1.70	U	3.59	1.70	ug/Kg	☆	08/11/20 09:01	08/13/20 14:12	1
Heptachlor	1.01	U	1.85	1.01	ug/Kg	☆	08/11/20 09:01	08/13/20 14:12	1
Heptachlor epoxide	1.27	U	1.85	1.27	ug/Kg	☆	08/11/20 09:01	08/13/20 14:12	1
Toxaphene	79.6	U	185	79.6	ug/Kg	☆	08/11/20 09:01	08/13/20 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	80		47 - 150				08/11/20 09:01	08/13/20 14:12	1
Tetrachloro-m-xylene	86		50 - 143				08/11/20 09:01	08/13/20 14:12	1
Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00174	U	0.0182	0.00174	mg/Kg	☆	08/11/20 09:01	08/13/20 14:38	1
PCB-1221	0.00940	U	0.0182	0.00940	mg/Kg	☆	08/11/20 09:01	08/13/20 14:38	1
PCB-1232	0.00730	U	0.0182	0.00730	mg/Kg	☆	08/11/20 09:01	08/13/20 14:38	1
PCB-1242	0.00135	U	0.0182	0.00135	mg/Kg	☆	08/11/20 09:01	08/13/20 14:38	1
PCB-1248	0.00271	U	0.0182	0.00271	mg/Kg	☆	08/11/20 09:01	08/13/20 14:38	1
PCB-1254	0.00241	U	0.0182	0.00241	mg/Kg	☆	08/11/20 09:01	08/13/20 14:38	1
PCB-1260	0.0147	U	0.0182	0.0147	mg/Kg	☆	08/11/20 09:01	08/13/20 14:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		10 - 150				08/11/20 09:01	08/13/20 14:38	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE21-S-2-3-200807

Lab Sample ID: 600-209488-2

Date Collected: 08/07/20 14:24

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 91.5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	110		10 - 150	08/11/20 09:01	08/13/20 14:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.14	J	4.37	0.584	mg/Kg	✱		08/11/20 22:11	1
Nitrate as N	7.27		2.19	0.274	mg/Kg	✱		08/11/20 22:11	1
Fluoride	10.1		2.19	0.657	mg/Kg	✱		08/11/20 22:11	1
Nitrite as N	0.325	U	2.19	0.325	mg/Kg	✱		08/11/20 22:11	1
Sulfate	47.3		5.47	1.05	mg/Kg	✱		08/11/20 22:11	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	0.0989	0.0225	mg/Kg		08/12/20 15:04	08/13/20 22:26	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0425	U	0.198	0.0425	mg/Kg		08/12/20 15:04	08/13/20 22:26	1
2,4,6-Trinitrotoluene	0.0304	U	0.0989	0.0304	mg/Kg		08/12/20 15:04	08/13/20 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	101		83 - 122	08/12/20 15:04	08/13/20 22:26	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0878	U	0.533	0.0878	ug/Kg	✱	08/12/20 11:00	08/20/20 15:49	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.239	U	0.831	0.239	ug/Kg	✱	08/17/20 14:49	08/24/20 13:58	1
Perfluorohexanesulfonic acid (PFHxS)	0.291	U	0.831	0.291	ug/Kg	✱	08/17/20 14:49	08/24/20 13:58	1
Perfluorooctanesulfonic acid (PFOS)	0.145	U	0.831	0.145	ug/Kg	✱	08/17/20 14:49	08/24/20 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	08/17/20 14:49	08/24/20 13:58	1
13C8 PFOS	98		70 - 130	08/17/20 14:49	08/24/20 13:58	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.805	U	2.15	0.805	mg/Kg	✱	09/04/20 10:33	09/09/20 19:31	20
Arsenic	4.29	U	10.7	4.29	mg/Kg	✱	09/04/20 10:33	09/09/20 19:31	20
Barium	385		21.5	5.36	mg/Kg	✱	09/04/20 10:33	09/09/20 19:31	20
Beryllium	0.429	U	1.07	0.429	mg/Kg	✱	09/04/20 10:33	09/09/20 19:31	20
Cadmium	0.257	U	0.536	0.257	mg/Kg	✱	09/04/20 10:33	09/09/20 19:31	20
Chromium	4.83	U	10.7	4.83	mg/Kg	✱	09/04/20 10:33	09/09/20 19:31	20
Iron	2170		129	64.4	mg/Kg	✱	09/04/20 10:33	09/09/20 19:31	20
Copper	4.29	U	10.7	4.29	mg/Kg	✱	09/04/20 10:33	09/09/20 19:31	20
Manganese	17.4		5.36	2.15	mg/Kg	✱	09/04/20 10:33	09/09/20 19:31	20
Lead	1.34	U	3.22	1.34	mg/Kg	✱	09/04/20 10:33	09/09/20 19:31	20
Antimony	2.15	U	5.36	2.15	mg/Kg	✱	09/04/20 10:33	09/09/20 19:31	20
Selenium	3.43	U	5.36	3.43	mg/Kg	✱	09/04/20 10:33	09/09/20 19:31	20
Thallium	2.15	U	5.36	2.15	mg/Kg	✱	09/04/20 10:33	09/09/20 19:31	20
Zinc	21.5	U	53.6	21.5	mg/Kg	✱	09/04/20 10:33	09/09/20 19:31	20
Uranium	0.429	U	1.07	0.429	mg/Kg	✱	09/04/20 10:33	09/09/20 19:31	20

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE21-S-2-3-200807

Lab Sample ID: 600-209488-2

Date Collected: 08/07/20 14:24

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 91.5

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00350	U	0.0166	0.00350	mg/Kg	☆	09/02/20 13:16	09/03/20 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.5		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	91.5		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0194	U	0.129	0.0194	mg/Kg	☆	08/20/20 13:55	08/20/20 17:44	1
pH	8.7	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.457	U	0.544	0.457	mg/Kg	☆	08/20/20 12:06	08/20/20 15:59	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	117		10.0	10.0	mg/L			08/17/20 11:57	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	0.880		0.165	0.189	1.00	0.0939	pCi/g	08/20/20 11:47	09/12/20 11:08	1
Radium-228	0.220		0.114	0.116		0.101	pCi/g	08/20/20 11:47	09/12/20 11:08	1
Combined Radium 226 + 228	1.10		0.201	0.222		0.101	pCi/g	08/20/20 11:47	09/12/20 11:08	1

Client Sample ID: CELL21-SQUARE61-S-2-3-200807

Lab Sample ID: 600-209488-3

Date Collected: 08/07/20 14:55

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 90.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.71	U	10.3	1.71	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
Vinyl chloride	0.926	U	10.3	0.926	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
Bromomethane	0.854	U	10.3	0.854	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
Trichlorofluoromethane	0.679	U	10.3	0.679	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
Acrolein	6.41	U	25.7	6.41	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
1,1-Dichloroethene	1.26	U	5.14	1.26	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
trans-1,2-Dichloroethene	1.17	U	5.14	1.17	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
Methyl tert-butyl ether	1.88	U	5.14	1.88	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
Methylene Chloride	3.53	J	10.3	2.25	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
Acrylonitrile	5.99	U	51.4	5.99	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
cis-1,2-Dichloroethene	0.854	U	5.14	0.854	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
Carbon tetrachloride	1.16	U	5.14	1.16	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
Benzene	2.15	J	5.14	0.648	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
1,2-Dichloroethane	0.926	U	5.14	0.926	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
Trichloroethene	1.44	U	5.14	1.44	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
1,1,1-Trichloroethane	0.761	U	5.14	0.761	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
1,1-Dichloroethane	0.895	U	5.14	0.895	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
1,2-Dichloropropane	0.731	U	5.14	0.731	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
1,4-Dioxane	63.9	U	514	63.9	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
Chloroform	2.53	J b	10.3	0.679	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
Bromodichloromethane	0.679	U	5.14	0.679	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1
1,1-Dichloropropene	0.669	U	5.14	0.669	ug/Kg	☆	08/12/20 11:03	08/13/20 13:34	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE61-S-2-3-200807

Lab Sample ID: 600-209488-3

Date Collected: 08/07/20 14:55

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.556	U	5.14	0.556	ug/Kg	✱	08/12/20 11:03	08/13/20 13:34	1
Toluene	1.42	U	5.14	1.42	ug/Kg	✱	08/12/20 11:03	08/13/20 13:34	1
trans-1,3-Dichloropropene	0.597	U	5.14	0.597	ug/Kg	✱	08/12/20 11:03	08/13/20 13:34	1
1,1,2-Trichloroethane	0.751	U	5.14	0.751	ug/Kg	✱	08/12/20 11:03	08/13/20 13:34	1
Tetrachloroethene	0.731	U	5.14	0.731	ug/Kg	✱	08/12/20 11:03	08/13/20 13:34	1
1,3-Dichloropropene, Total	0.597	U	5.14	0.597	ug/Kg	✱	08/12/20 11:03	08/13/20 13:34	1
1,2-Dibromoethane	1.05	U	5.14	1.05	ug/Kg	✱	08/12/20 11:03	08/13/20 13:34	1
Monochlorobenzene	0.988	U	5.14	0.988	ug/Kg	✱	08/12/20 11:03	08/13/20 13:34	1
Ethylbenzene	1.05	U	5.14	1.05	ug/Kg	✱	08/12/20 11:03	08/13/20 13:34	1
Xylenes, Total	1.16	U	5.14	1.16	ug/Kg	✱	08/12/20 11:03	08/13/20 13:34	1
Styrene	0.731	U	5.14	0.731	ug/Kg	✱	08/12/20 11:03	08/13/20 13:34	1
Tribromomethane	1.41	U	5.14	1.41	ug/Kg	✱	08/12/20 11:03	08/13/20 13:34	1
1,1,2,2-Tetrachloroethane	0.895	U	5.14	0.895	ug/Kg	✱	08/12/20 11:03	08/13/20 13:34	1
1,4-Dichlorobenzene	0.679	U	5.14	0.679	ug/Kg	✱	08/12/20 11:03	08/13/20 13:34	1
1,2-Dichlorobenzene	0.823	U	5.14	0.823	ug/Kg	✱	08/12/20 11:03	08/13/20 13:34	1
1,2,4-Trichlorobenzene	2.03	U	5.14	2.03	ug/Kg	✱	08/12/20 11:03	08/13/20 13:34	1
Dichlorodifluoromethane	1.58	U	5.14	1.58	ug/Kg	✱	08/12/20 11:03	08/13/20 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		61 - 130	08/12/20 11:03	08/13/20 13:34	1
Dibromofluoromethane	89		68 - 140	08/12/20 11:03	08/13/20 13:34	1
Toluene-d8 (Surr)	94		50 - 130	08/12/20 11:03	08/13/20 13:34	1
4-Bromofluorobenzene	110		57 - 140	08/12/20 11:03	08/13/20 13:34	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.63	U	36.8	4.63	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
N-Nitrosodiethylamine	7.93	U	36.8	7.93	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
Bis(2-chloroethyl)ether	1.82	U	36.8	1.82	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
Hexachloroethane	2.55	U	36.8	2.55	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
N-Nitrosopyrrolidine	5.16	U	36.8	5.16	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
Nitrobenzene	3.27	U	36.8	3.27	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
Isophorone	1.10	U	36.8	1.10	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
2,4-Dichlorophenol	4.28	U	36.8	4.28	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
Naphthalene	1.49	U	36.8	1.49	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
Hexachlorobutadiene	2.12	U	36.8	2.12	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
N-Nitrosodi-n-butylamine	18.4	U	36.8	18.4	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
2-Methylnaphthalene	5.82	J	36.8	3.03	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
1-Methylnaphthalene	1.73	U	36.8	1.73	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
1,2,4,5-Tetrachlorobenzene	7.46	U	36.8	7.46	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
Hexachlorocyclopentadiene	5.09	U	36.8	5.09	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
2,4,6-Trichlorophenol	2.96	U	36.8	2.96	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
2,4,5-Trichlorophenol	11.1	U	36.8	11.1	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
Dimethyl phthalate	5.40	U	73.7	5.40	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
Acenaphthylene	1.10	U	36.8	1.10	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
2,6-Dinitrotoluene	3.26	U	36.8	3.26	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
Acenaphthene	1.59	U	36.8	1.59	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
Dinitrophenols	5.22	U	110	5.22	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
Pentachlorobenzene	4.43	U	36.8	4.43	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1
2,4-Dinitrotoluene	3.99	U	36.8	3.99	ug/Kg	✱	08/12/20 11:44	08/17/20 20:53	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE61-S-2-3-200807

Lab Sample ID: 600-209488-3

Date Collected: 08/07/20 14:55

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 90.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	9.31	U	73.7	9.31	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Fluorene	2.61	U	36.8	2.61	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Dinitro-o-cresol	5.50	U	188	5.50	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
N-Nitrosodiphenylamine	2.09	U	36.8	2.09	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Diphenylhydrazine, 1,2-	1.79	U	36.8	1.79	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Hexachlorobenzene	1.68	U	36.8	1.68	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Atrazine	5.55	U	36.8	5.55	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Pentachlorophenol	4.42	U	185	4.42	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Phenanthrene	5.47	U	36.8	5.47	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Anthracene	1.41	U	36.8	1.41	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Dibutylphthalate	2.86	U	73.7	2.86	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Fluoranthene	3.44	U	36.8	3.44	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Benzidine	9.97	U	365	9.97	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Pyrene	2.02	U	36.8	2.02	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Dichlorobenzidine, 3,3'-	11.2	U	36.8	11.2	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Benzo[a]anthracene	1.52	U	36.8	1.52	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Di (2-ethylhexyl)phthalate	24.1	J	36.8	5.93	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Chrysene	1.13	U	36.8	1.13	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Benzo[b]fluoranthene	1.90	U	36.8	1.90	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Benzo[k]fluoranthene	1.65	U	36.8	1.65	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Benzo[a]pyrene	1.78	U	36.8	1.78	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Indeno[1,2,3-cd]pyrene	3.87	U	36.8	3.87	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Dibenz(a,h)anthracene	4.01	U	36.8	4.01	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Benzo[g,h,i]perylene	5.60	U	36.8	5.60	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
bis (2-chloroisopropyl) ether	9.77	U	36.8	9.77	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1
Thiophene, tetrahydro-, 1,1-dioxide	18.4	U	36.8	18.4	ug/Kg	☆	08/12/20 11:44	08/17/20 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	18		10 - 148	08/12/20 11:44	08/17/20 20:53	1
2-Fluorobiphenyl	80		38 - 130	08/12/20 11:44	08/17/20 20:53	1
2-Fluorophenol	78		25 - 132	08/12/20 11:44	08/17/20 20:53	1
Nitrobenzene-d5	77		10 - 155	08/12/20 11:44	08/17/20 20:53	1
Terphenyl-d14	103		53 - 134	08/12/20 11:44	08/17/20 20:53	1
Phenol-d5 (Surr)	77		27 - 130	08/12/20 11:44	08/17/20 20:53	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.2	U	72.7	13.2	ug/Kg	☆	08/18/20 13:26	08/20/20 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	77		30 - 164	08/18/20 13:26	08/20/20 19:19	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.654	U	1.12	0.654	mg/Kg	☆	08/08/20 15:03	08/13/20 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	101		70 - 130	08/08/20 15:03	08/13/20 12:52	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE61-S-2-3-200807

Lab Sample ID: 600-209488-3

Date Collected: 08/07/20 14:55

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.84	U	8.30	2.84	mg/Kg	✱	08/10/20 15:59	08/14/20 00:45	1
C28-C36	8.30	U	8.30	8.30	mg/Kg	✱	08/10/20 15:59	08/14/20 00:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	137		60 - 140				08/10/20 15:59	08/14/20 00:45	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.45	U	1.88	1.45	ug/Kg	✱	08/11/20 09:01	08/13/20 14:37	1
Hexachlorocyclohexane, beta-	1.13	U	1.88	1.13	ug/Kg	✱	08/11/20 09:01	08/13/20 14:37	1
Hexachlorocyclohexane, delta-	0.940	U	1.88	0.940	ug/Kg	✱	08/11/20 09:01	08/13/20 14:37	1
Hexachlorocyclohexane, alpha-	1.11	U	1.88	1.11	ug/Kg	✱	08/11/20 09:01	08/13/20 14:37	1
Hexachlorocyclohexane, gamma-	1.03	U	1.88	1.03	ug/Kg	✱	08/11/20 09:01	08/13/20 14:37	1
Chlordane (technical)	25.9	U	82.9	25.9	ug/Kg	✱	08/11/20 09:01	08/13/20 14:37	1
DDT	2.05	U	3.65	2.05	ug/Kg	✱	08/11/20 09:01	08/13/20 14:37	1
Dieldrin	1.54	U	3.65	1.54	ug/Kg	✱	08/11/20 09:01	08/13/20 14:37	1
Endosulfan I	1.11	U	1.88	1.11	ug/Kg	✱	08/11/20 09:01	08/13/20 14:37	1
Endosulfan II	1.67	U	3.65	1.67	ug/Kg	✱	08/11/20 09:01	08/13/20 14:37	1
Endosulfan sulfate	1.86	U	3.65	1.86	ug/Kg	✱	08/11/20 09:01	08/13/20 14:37	1
Endrin	1.69	U	3.65	1.69	ug/Kg	✱	08/11/20 09:01	08/13/20 14:37	1
Endrin aldehyde	1.72	U	3.65	1.72	ug/Kg	✱	08/11/20 09:01	08/13/20 14:37	1
Heptachlor	1.03	U	1.88	1.03	ug/Kg	✱	08/11/20 09:01	08/13/20 14:37	1
Heptachlor epoxide	1.29	U	1.88	1.29	ug/Kg	✱	08/11/20 09:01	08/13/20 14:37	1
Toxaphene	80.8	U	188	80.8	ug/Kg	✱	08/11/20 09:01	08/13/20 14:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>DCB</i> Decachlorobiphenyl	72		47 - 150				08/11/20 09:01	08/13/20 14:37	1
<i>Tetrachloro-m-xylene</i>	83		50 - 143				08/11/20 09:01	08/13/20 14:37	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00177	U	0.0185	0.00177	mg/Kg	✱	08/11/20 09:01	08/13/20 15:04	1
PCB-1221	0.00954	U	0.0185	0.00954	mg/Kg	✱	08/11/20 09:01	08/13/20 15:04	1
PCB-1232	0.00741	U	0.0185	0.00741	mg/Kg	✱	08/11/20 09:01	08/13/20 15:04	1
PCB-1242	0.00137	U	0.0185	0.00137	mg/Kg	✱	08/11/20 09:01	08/13/20 15:04	1
PCB-1248	0.00275	U	0.0185	0.00275	mg/Kg	✱	08/11/20 09:01	08/13/20 15:04	1
PCB-1254	0.00244	U	0.0185	0.00244	mg/Kg	✱	08/11/20 09:01	08/13/20 15:04	1
PCB-1260	0.0149	U	0.0185	0.0149	mg/Kg	✱	08/11/20 09:01	08/13/20 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	96		10 - 150				08/11/20 09:01	08/13/20 15:04	1
<i>DCB</i> Decachlorobiphenyl	101		10 - 150				08/11/20 09:01	08/13/20 15:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.25	J	4.43	0.591	mg/Kg	✱		08/11/20 23:12	1
Nitrate as N	8.92		2.21	0.278	mg/Kg	✱		08/11/20 23:12	1
Fluoride	7.59		2.21	0.666	mg/Kg	✱		08/11/20 23:12	1
Nitrite as N	0.329	U	2.21	0.329	mg/Kg	✱		08/11/20 23:12	1
Sulfate	105		5.54	1.06	mg/Kg	✱		08/11/20 23:12	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE61-S-2-3-200807

Lab Sample ID: 600-209488-3

Date Collected: 08/07/20 14:55

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 90.3

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0209	U	0.0923	0.0209	mg/Kg		08/12/20 15:04	08/13/20 22:49	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0397	U	0.185	0.0397	mg/Kg		08/12/20 15:04	08/13/20 22:49	1
2,4,6-Trinitrotoluene	0.0283	U	0.0923	0.0283	mg/Kg		08/12/20 15:04	08/13/20 22:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	104		83 - 122				08/12/20 15:04	08/13/20 22:49	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0873	U	0.530	0.0873	ug/Kg	✱	08/12/20 11:00	08/20/20 15:54	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.245	U	0.852	0.245	ug/Kg	✱	08/17/20 14:49	08/24/20 14:06	1
Perfluorohexanesulfonic acid (PFHxS)	0.298	U	0.852	0.298	ug/Kg	✱	08/17/20 14:49	08/24/20 14:06	1
Perfluorooctanesulfonic acid (PFOS)	0.149	U	0.852	0.149	ug/Kg	✱	08/17/20 14:49	08/24/20 14:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	102		57 - 153				08/17/20 14:49	08/24/20 14:06	1
13C8 PFOS	94		70 - 130				08/17/20 14:49	08/24/20 14:06	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.789	U	2.10	0.789	mg/Kg	✱	09/04/20 10:33	09/09/20 19:34	20
Arsenic	4.21	U	10.5	4.21	mg/Kg	✱	09/04/20 10:33	09/09/20 19:34	20
Barium	806		21.0	5.26	mg/Kg	✱	09/04/20 10:33	09/09/20 19:34	20
Beryllium	0.421	U	1.05	0.421	mg/Kg	✱	09/04/20 10:33	09/09/20 19:34	20
Cadmium	0.252	U	0.526	0.252	mg/Kg	✱	09/04/20 10:33	09/09/20 19:34	20
Chromium	4.73	U	10.5	4.73	mg/Kg	✱	09/04/20 10:33	09/09/20 19:34	20
Iron	1910		126	63.1	mg/Kg	✱	09/04/20 10:33	09/09/20 19:34	20
Copper	4.21	U	10.5	4.21	mg/Kg	✱	09/04/20 10:33	09/09/20 19:34	20
Manganese	19.8		5.26	2.10	mg/Kg	✱	09/04/20 10:33	09/09/20 19:34	20
Lead	1.31	U	3.15	1.31	mg/Kg	✱	09/04/20 10:33	09/09/20 19:34	20
Antimony	2.10	U	5.26	2.10	mg/Kg	✱	09/04/20 10:33	09/09/20 19:34	20
Selenium	3.37	U	5.26	3.37	mg/Kg	✱	09/04/20 10:33	09/09/20 19:34	20
Thallium	2.10	U	5.26	2.10	mg/Kg	✱	09/04/20 10:33	09/09/20 19:34	20
Zinc	21.0	U	52.6	21.0	mg/Kg	✱	09/04/20 10:33	09/09/20 19:34	20
Uranium	0.421	U	1.05	0.421	mg/Kg	✱	09/04/20 10:33	09/09/20 19:34	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00372	U	0.0176	0.00372	mg/Kg	✱	09/02/20 13:16	09/03/20 14:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.7		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	90.3		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0194	U	0.129	0.0194	mg/Kg	✱	08/20/20 13:55	08/20/20 17:45	1
pH	8.9	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.464	U	0.554	0.464	mg/Kg	✱	08/20/20 12:06	08/20/20 16:00	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE61-S-2-3-200807

Lab Sample ID: 600-209488-3

Date Collected: 08/07/20 14:55

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 90.3

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	105		10.0	10.0	mg/L			08/17/20 11:57	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	0.966		0.163	0.190	1.00	0.0487	pCi/g	08/20/20 11:47	09/12/20 11:04	1
Radium-228	0.0582	U	0.113	0.113		0.246	pCi/g	08/20/20 11:47	09/12/20 11:04	1
Combined Radium 226 + 228	1.02		0.198	0.221		0.246	pCi/g	08/20/20 11:47	09/12/20 11:04	1

Eurofins TestAmerica, Houston

Definitions/Glossary

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

Job ID: 600-209488-1

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

GC/MS Semi VOA

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
E	Result is greater than the UQL and the concentration is an estimated value.
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 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.

LCMS

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
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.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor

Eurofins TestAmerica, Houston

Definitions/Glossary

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

Job ID: 600-209488-1

Glossary (Continued)

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

Surrogate Summary

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

Job ID: 600-209488-1

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 (61-130)	DBFM (68-140)	TOL (50-130)	BFB (57-140)
600-209488-1	CELL20-SQUARE154-S-2-3-20(	99	88	93	107
600-209488-2	CELL21-SQUARE21-S-2-3-200 807	102	87	86	107
600-209488-3	CELL21-SQUARE61-S-2-3-200 807	101	89	94	110
LCS 600-301050/3	Lab Control Sample	86	87	97	112
LCSD 600-301050/4	Lab Control Sample Dup	80	82	92	103
MB 600-301050/6	Method Blank	103	90	94	111
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
DBFM = Dibromofluoromethane					
TOL = Toluene-d8 (Surr)					
BFB = 4-Bromofluorobenzene					

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (10-148)	FBP (38-130)	2FP (25-132)	NBZ (10-155)	TPHL (53-134)	PHL (27-130)
600-209488-1	CELL20-SQUARE154-S-2-3-20(	72	68	65	66	95	66
600-209488-2	CELL21-SQUARE21-S-2-3-200 807	64	81	77	77	102	65
600-209488-3	CELL21-SQUARE61-S-2-3-200 807	18	80	78	77	103	77
LCS 600-300979/24-A	Lab Control Sample	99	95	87	91	116	89
LCS 600-300979/25-A	Lab Control Sample	56	85	73	84	109	79
LCS 600-300979/2-A	Lab Control Sample	100	98	91	95	112	93
LCS 600-301327/12-A	Lab Control Sample	70	85	78	80	105	76
LCS 600-301327/2-A	Lab Control Sample	86	90	83	87	104	83
LCS 600-301327/3-A	Lab Control Sample	85	88	84	84	104	77
MB 600-300979/1-A	Method Blank	76	90	84	89	113	84
MB 600-301327/1-A	Method Blank	51	89	88	88	105	85
Surrogate Legend							
TBP = 2,4,6-Tribromophenol							
FBP = 2-Fluorobiphenyl							
2FP = 2-Fluorophenol							
NBZ = Nitrobenzene-d5							
TPHL = Terphenyl-d14							
PHL = Phenol-d5 (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)	
600-209488-1	CELL20-SQUARE154-S-2-3-20(	72	
600-209488-2	CELL21-SQUARE21-S-2-3-200 807	56	

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Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209488-1

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)
600-209488-3	CELL21-SQUARE61-S-2-3-200	77
LCS 400-500724/2-A	Lab Control Sample	87
MB 400-500724/1-A	Method Blank	75

Surrogate Legend

TPP = Triphenylphosphate

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFT1 (70-130)
600-209488-1	CELL20-SQUARE154-S-2-3-200	88
600-209488-2	CELL21-SQUARE21-S-2-3-200 807	99
600-209488-3	CELL21-SQUARE61-S-2-3-200 807	101

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH1 (60-140)
600-209488-1	CELL20-SQUARE154-S-2-3-200	130
600-209488-2	CELL21-SQUARE21-S-2-3-200 807	75
600-209488-3	CELL21-SQUARE61-S-2-3-200 807	137
LCS 600-300806/2-A	Lab Control Sample	131
LCS 600-301059/2-A	Lab Control Sample	71
LCSD 600-300806/3-A	Lab Control Sample Dup	131
LCSD 600-301059/3-A	Lab Control Sample Dup	76
MB 600-300806/1-A	Method Blank	125
MB 600-301059/1-A	Method Blank	99

Surrogate Legend

OTPH = o-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP1 (47-150)	TCX1 (50-143)
600-209488-1	CELL20-SQUARE154-S-2-3-200	79	73
600-209488-2	CELL21-SQUARE21-S-2-3-200 807	80	86
600-209488-3	CELL21-SQUARE61-S-2-3-200 807	72	83

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Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209488-1

Project/Site: Chevron - Jal Land Farm Soils

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (47-150)	TCX1 (50-143)
LCS 600-300862/2-A	Lab Control Sample	76	74
LCS 600-301410/2-A	Lab Control Sample	86	72
LCSD 600-300862/3-A	Lab Control Sample Dup	104	89
LCSD 600-301410/3-A	Lab Control Sample Dup	78	64
MB 600-300862/1-A	Method Blank	127	116
MB 600-301410/1-A	Method Blank	93	67
Surrogate Legend			
DCBP = DCB Decachlorobiphenyl			
TCX = Tetrachloro-m-xylene			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (10-150)	DCBP1 (10-150)
600-209488-1	CELL20-SQUARE154-S-2-3-20(	77	90
600-209488-2	CELL21-SQUARE21-S-2-3-200 807	93	110
600-209488-3	CELL21-SQUARE61-S-2-3-200 807	96	101
LCS 600-301410/4-A	Lab Control Sample	83	92
LCSD 600-301410/5-A	Lab Control Sample Dup	98	127
MB 600-301410/1-A	Method Blank	81	116
Surrogate Legend			
TCX = Tetrachloro-m-xylene			
DCBP = DCB Decachlorobiphenyl			

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)	
600-209488-1	CELL20-SQUARE154-S-2-3-20(	102	
600-209488-2	CELL21-SQUARE21-S-2-3-200 807	101	
600-209488-3	CELL21-SQUARE61-S-2-3-200 807	104	
LCS 280-505436/2-A	Lab Control Sample	106	
MB 280-505436/1-A	Method Blank	102	
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)
600-209488-1	CELL20-SQUARE154-S-2-3-20(	104	93

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Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209488-1

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)
600-209488-2	CELL21-SQUARE21-S-2-3-2008	103	98
600-209488-3	CELL21-SQUARE61-S-2-3-200807	102	94
DLCK 280-500633/14	Lab Control Sample	108	91
LCS 280-505864/2-A	Lab Control Sample	101	98
MB 280-505864/1-A	Method Blank	104	94

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: 600-209488-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-301050/6

Matrix: Solid

Analysis Batch: 301050

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.66	U	10.0	1.66	ug/Kg			08/13/20 09:16	1
Vinyl chloride	0.900	U	10.0	0.900	ug/Kg			08/13/20 09:16	1
Bromomethane	0.830	U	10.0	0.830	ug/Kg			08/13/20 09:16	1
Trichlorofluoromethane	0.660	U	10.0	0.660	ug/Kg			08/13/20 09:16	1
Acrolein	6.23	U	25.0	6.23	ug/Kg			08/13/20 09:16	1
1,1-Dichloroethene	1.22	U	5.00	1.22	ug/Kg			08/13/20 09:16	1
trans-1,2-Dichloroethene	1.14	U	5.00	1.14	ug/Kg			08/13/20 09:16	1
Methyl tert-butyl ether	1.83	U	5.00	1.83	ug/Kg			08/13/20 09:16	1
Methylene Chloride	2.19	U	10.0	2.19	ug/Kg			08/13/20 09:16	1
Acrylonitrile	5.82	U	50.0	5.82	ug/Kg			08/13/20 09:16	1
cis-1,2-Dichloroethene	0.830	U	5.00	0.830	ug/Kg			08/13/20 09:16	1
Carbon tetrachloride	1.13	U	5.00	1.13	ug/Kg			08/13/20 09:16	1
Benzene	0.630	U	5.00	0.630	ug/Kg			08/13/20 09:16	1
1,2-Dichloroethane	0.900	U	5.00	0.900	ug/Kg			08/13/20 09:16	1
Trichloroethene	1.40	U	5.00	1.40	ug/Kg			08/13/20 09:16	1
1,1,1-Trichloroethane	0.740	U	5.00	0.740	ug/Kg			08/13/20 09:16	1
1,1-Dichloroethane	0.870	U	5.00	0.870	ug/Kg			08/13/20 09:16	1
1,2-Dichloropropane	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
1,4-Dioxane	62.1	U	500	62.1	ug/Kg			08/13/20 09:16	1
Chloroform	1.495	J	10.0	0.660	ug/Kg			08/13/20 09:16	1
Bromodichloromethane	0.660	U	5.00	0.660	ug/Kg			08/13/20 09:16	1
1,1-Dichloropropene	0.650	U	5.00	0.650	ug/Kg			08/13/20 09:16	1
cis-1,3-Dichloropropene	0.540	U	5.00	0.540	ug/Kg			08/13/20 09:16	1
Toluene	1.38	U	5.00	1.38	ug/Kg			08/13/20 09:16	1
trans-1,3-Dichloropropene	0.580	U	5.00	0.580	ug/Kg			08/13/20 09:16	1
1,1,2-Trichloroethane	0.730	U	5.00	0.730	ug/Kg			08/13/20 09:16	1
Tetrachloroethene	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
1,3-Dichloropropene, Total	0.580	U	5.00	0.580	ug/Kg			08/13/20 09:16	1
1,2-Dibromoethane	1.02	U	5.00	1.02	ug/Kg			08/13/20 09:16	1
Monochlorobenzene	0.960	U	5.00	0.960	ug/Kg			08/13/20 09:16	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			08/13/20 09:16	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			08/13/20 09:16	1
Styrene	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
Tribromomethane	1.37	U	5.00	1.37	ug/Kg			08/13/20 09:16	1
1,1,2,2-Tetrachloroethane	0.870	U	5.00	0.870	ug/Kg			08/13/20 09:16	1
1,4-Dichlorobenzene	0.660	U	5.00	0.660	ug/Kg			08/13/20 09:16	1
1,2-Dichlorobenzene	0.800	U	5.00	0.800	ug/Kg			08/13/20 09:16	1
1,2,4-Trichlorobenzene	1.97	U	5.00	1.97	ug/Kg			08/13/20 09:16	1
Dichlorodifluoromethane	1.54	U	5.00	1.54	ug/Kg			08/13/20 09:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		61 - 130		08/13/20 09:16	1
Dibromofluoromethane	90		68 - 140		08/13/20 09:16	1
Toluene-d8 (Surr)	94		50 - 130		08/13/20 09:16	1
4-Bromofluorobenzene	111		57 - 140		08/13/20 09:16	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

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

Lab Sample ID: LCS 600-301050/3

Matrix: Solid

Analysis Batch: 301050

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	62.60		ug/Kg		125	44 - 141
Vinyl chloride	50.0	56.81		ug/Kg		114	40 - 148
Bromomethane	50.0	47.04		ug/Kg		94	37 - 147
Trichlorofluoromethane	50.0	58.99		ug/Kg		118	53 - 134
Acrolein	250	187.8		ug/Kg		75	10 - 150
1,1-Dichloroethene	50.0	43.46		ug/Kg		87	62 - 142
trans-1,2-Dichloroethene	50.0	45.56		ug/Kg		91	69 - 130
Methyl tert-butyl ether	50.0	48.13		ug/Kg		96	63 - 132
Methylene Chloride	50.0	45.62		ug/Kg		91	61 - 150
Acrylonitrile	500	427.0		ug/Kg		85	43 - 150
cis-1,2-Dichloroethene	50.0	45.90		ug/Kg		92	70 - 130
Carbon tetrachloride	50.0	51.32		ug/Kg		103	58 - 130
Benzene	50.0	46.71		ug/Kg		93	70 - 131
1,2-Dichloroethane	50.0	50.78		ug/Kg		102	58 - 137
Trichloroethene	50.0	43.91		ug/Kg		88	63 - 135
1,1,1-Trichloroethane	50.0	53.00		ug/Kg		106	59 - 130
1,1-Dichloroethane	50.0	50.37		ug/Kg		101	63 - 140
1,2-Dichloropropane	50.0	48.85		ug/Kg		98	70 - 130
1,4-Dioxane	1000	710.8		ug/Kg		71	31 - 150
Chloroform	50.0	50.39		ug/Kg		101	69 - 130
Bromodichloromethane	50.0	50.13		ug/Kg		100	67 - 138
1,1-Dichloropropene	50.0	50.16		ug/Kg		100	67 - 130
cis-1,3-Dichloropropene	50.0	47.14		ug/Kg		94	65 - 130
Toluene	50.0	47.87		ug/Kg		96	67 - 130
trans-1,3-Dichloropropene	50.0	48.68		ug/Kg		97	70 - 130
1,1,2-Trichloroethane	50.0	44.09		ug/Kg		88	67 - 134
Tetrachloroethene	50.0	45.09		ug/Kg		90	43 - 143
1,3-Dichloropropene, Total	100	95.82		ug/Kg		96	70 - 130
1,2-Dibromoethane	50.0	41.52		ug/Kg		83	65 - 136
Monochlorobenzene	50.0	46.20		ug/Kg		92	63 - 131
Ethylbenzene	50.0	45.93		ug/Kg		92	66 - 130
Xylenes, Total	100	93.07		ug/Kg		93	63 - 130
Styrene	50.0	45.04		ug/Kg		90	65 - 133
Tribromomethane	50.0	47.04		ug/Kg		94	43 - 150
1,1,2,2-Tetrachloroethane	50.0	46.75		ug/Kg		94	61 - 138
1,4-Dichlorobenzene	50.0	49.09		ug/Kg		98	65 - 131
1,2-Dichlorobenzene	50.0	49.00		ug/Kg		98	61 - 131
1,2,4-Trichlorobenzene	50.0	45.91		ug/Kg		92	53 - 136
Dichlorodifluoromethane	50.0	67.00		ug/Kg		134	24 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		61 - 130
Dibromofluoromethane	87		68 - 140
Toluene-d8 (Surr)	97		50 - 130
4-Bromofluorobenzene	112		57 - 140

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

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

Lab Sample ID: LCSD 600-301050/4

Matrix: Solid

Analysis Batch: 301050

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
Chloromethane	50.0	70.57		ug/Kg		141	44 - 141	12	30
Vinyl chloride	50.0	60.70		ug/Kg		121	40 - 148	7	30
Bromomethane	50.0	54.12		ug/Kg		108	37 - 147	14	30
Trichlorofluoromethane	50.0	62.29		ug/Kg		125	53 - 134	5	30
Acrolein	250	187.8		ug/Kg		75	10 - 150	0	30
1,1-Dichloroethene	50.0	48.43		ug/Kg		97	62 - 142	11	30
trans-1,2-Dichloroethene	50.0	49.66		ug/Kg		99	69 - 130	9	30
Methyl tert-butyl ether	50.0	47.56		ug/Kg		95	63 - 132	1	30
Methylene Chloride	50.0	50.95		ug/Kg		102	61 - 150	11	30
Acrylonitrile	500	434.3		ug/Kg		87	43 - 150	2	30
cis-1,2-Dichloroethene	50.0	47.09		ug/Kg		94	70 - 130	3	30
Carbon tetrachloride	50.0	52.91		ug/Kg		106	58 - 130	3	30
Benzene	50.0	49.53		ug/Kg		99	70 - 131	6	30
1,2-Dichloroethane	50.0	53.19		ug/Kg		106	58 - 137	5	30
Trichloroethene	50.0	45.48		ug/Kg		91	63 - 135	4	30
1,1,1-Trichloroethane	50.0	55.40		ug/Kg		111	59 - 130	4	30
1,1-Dichloroethane	50.0	53.77		ug/Kg		108	63 - 140	7	30
1,2-Dichloropropane	50.0	51.35		ug/Kg		103	70 - 130	5	30
1,4-Dioxane	1000	632.7		ug/Kg		63	31 - 150	12	30
Chloroform	50.0	52.23		ug/Kg		104	69 - 130	4	30
Bromodichloromethane	50.0	49.98		ug/Kg		100	67 - 138	0	30
1,1-Dichloropropene	50.0	51.98		ug/Kg		104	67 - 130	4	30
cis-1,3-Dichloropropene	50.0	50.70		ug/Kg		101	65 - 130	7	30
Toluene	50.0	50.63		ug/Kg		101	67 - 130	6	30
trans-1,3-Dichloropropene	50.0	51.03		ug/Kg		102	70 - 130	5	30
1,1,2-Trichloroethane	50.0	44.91		ug/Kg		90	67 - 134	2	30
Tetrachloroethene	50.0	48.92		ug/Kg		98	43 - 143	8	30
1,3-Dichloropropene, Total	100	101.7		ug/Kg		102	70 - 130	6	30
1,2-Dibromoethane	50.0	43.77		ug/Kg		88	65 - 136	5	30
Monochlorobenzene	50.0	48.77		ug/Kg		98	63 - 131	5	30
Ethylbenzene	50.0	48.16		ug/Kg		96	66 - 130	5	30
Xylenes, Total	100	98.14		ug/Kg		98	63 - 130	5	30
Styrene	50.0	47.92		ug/Kg		96	65 - 133	6	30
Tribromomethane	50.0	47.54		ug/Kg		95	43 - 150	1	30
1,1,2,2-Tetrachloroethane	50.0	45.97		ug/Kg		92	61 - 138	2	30
1,4-Dichlorobenzene	50.0	51.20		ug/Kg		102	65 - 131	4	30
1,2-Dichlorobenzene	50.0	52.28		ug/Kg		105	61 - 131	6	30
1,2,4-Trichlorobenzene	50.0	50.70		ug/Kg		101	53 - 136	10	30
Dichlorodifluoromethane	50.0	69.88		ug/Kg		140	24 - 147	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		61 - 130
Dibromofluoromethane	82		68 - 140
Toluene-d8 (Surr)	92		50 - 130
4-Bromofluorobenzene	103		57 - 140

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-300979/1-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.17	U	33.1	4.17	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiethylamine	7.14	U	33.1	7.14	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Bis(2-chloroethyl)ether	1.64	U	33.1	1.64	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachloroethane	2.30	U	33.1	2.30	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosopyrrolidine	4.65	U	33.1	4.65	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene	2.94	U	33.1	2.94	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Isophorone	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dichlorophenol	3.85	U	33.1	3.85	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Naphthalene	1.34	U	33.1	1.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobutadiene	1.91	U	33.1	1.91	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodi-n-butylamine	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2-Methylnaphthalene	2.73	U	33.1	2.73	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1-Methylnaphthalene	1.56	U	33.1	1.56	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1,2,4,5-Tetrachlorobenzene	6.71	U	33.1	6.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorocyclopentadiene	4.59	U	33.1	4.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,6-Trichlorophenol	2.67	U	33.1	2.67	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,5-Trichlorophenol	9.96	U	33.1	9.96	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dimethyl phthalate	4.86	U	66.3	4.86	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthylene	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,6-Dinitrotoluene	2.93	U	33.1	2.93	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthene	1.43	U	33.1	1.43	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitrophenols	4.69	U	99.5	4.69	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorobenzene	3.99	U	33.1	3.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dinitrotoluene	3.59	U	33.1	3.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diethyl phthalate	8.39	U	66.3	8.39	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluorene	2.35	U	33.1	2.35	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitro-o-cresol	4.95	U	169	4.95	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiphenylamine	1.88	U	33.1	1.88	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diphenylhydrazine, 1,2-	1.61	U	33.1	1.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobenzene	1.51	U	33.1	1.51	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Atrazine	4.99	U	33.1	4.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorophenol	3.98	U	166	3.98	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Phenanthrene	4.92	U	33.1	4.92	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Anthracene	1.27	U	33.1	1.27	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibutylphthalate	2.58	U	66.3	2.58	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluoranthene	3.09	U	33.1	3.09	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzidine	8.97	U	328	8.97	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pyrene	1.82	U	33.1	1.82	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dichlorobenzidine, 3,3'-	10.1	U	33.1	10.1	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]anthracene	1.37	U	33.1	1.37	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Di (2-ethylhexyl)phthalate	5.34	U	33.1	5.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Chrysene	1.01	U	33.1	1.01	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[b]fluoranthene	1.71	U	33.1	1.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[k]fluoranthene	1.48	U	33.1	1.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]pyrene	1.60	U	33.1	1.60	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Indeno[1,2,3-cd]pyrene	3.48	U	33.1	3.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibenz(a,h)anthracene	3.61	U	33.1	3.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[g,h,i]perylene	5.04	U	33.1	5.04	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-300979/1-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	8.79	U	33.1	8.79	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Thiophene, tetrahydro-, 1,1-dioxide	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		10 - 148	08/12/20 09:49	08/17/20 08:25	1
2-Fluorobiphenyl	90		38 - 130	08/12/20 09:49	08/17/20 08:25	1
2-Fluorophenol	84		25 - 132	08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene-d5	89		10 - 155	08/12/20 09:49	08/17/20 08:25	1
Terphenyl-d14	113		53 - 134	08/12/20 09:49	08/17/20 08:25	1
Phenol-d5 (Surr)	84		27 - 130	08/12/20 09:49	08/17/20 08:25	1

Lab Sample ID: LCS 600-300979/24-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	663	603.2		ug/Kg		91	50 - 150
N-Nitrosopyrrolidine	663	640.3		ug/Kg		97	50 - 150
N-Nitrosodi-n-butylamine	663	504.6		ug/Kg		76	50 - 150
Pentachlorobenzene	663	570.9		ug/Kg		86	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	99		10 - 148
2-Fluorobiphenyl	95		38 - 130
2-Fluorophenol	87		25 - 132
Nitrobenzene-d5	91		10 - 155
Terphenyl-d14	116		53 - 134
Phenol-d5 (Surr)	89		27 - 130

Lab Sample ID: LCS 600-300979/25-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thiophene, tetrahydro-, 1,1-dioxide	1330	1839	E	ug/Kg		138	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	56		10 - 148
2-Fluorobiphenyl	85		38 - 130
2-Fluorophenol	73		25 - 132
Nitrobenzene-d5	84		10 - 155
Terphenyl-d14	109		53 - 134
Phenol-d5 (Surr)	79		27 - 130

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	663	620.7		ug/Kg		94	29 - 130
Bis(2-chloroethyl)ether	663	632.1		ug/Kg		95	40 - 130
Hexachloroethane	663	616.4		ug/Kg		93	37 - 130
Nitrobenzene	663	664.3		ug/Kg		100	42 - 130
Isophorone	663	669.6		ug/Kg		101	39 - 130
2,4-Dichlorophenol	663	685.5		ug/Kg		103	38 - 130
Naphthalene	663	645.1		ug/Kg		97	40 - 130
Hexachlorobutadiene	663	643.5		ug/Kg		97	36 - 130
2-Methylnaphthalene	663	669.4		ug/Kg		101	43 - 130
1-Methylnaphthalene	663	645.4		ug/Kg		97	43 - 130
1,2,4,5-Tetrachlorobenzene	663	672.6		ug/Kg		101	37 - 130
Hexachlorocyclopentadiene	663	594.1		ug/Kg		90	10 - 130
2,4,6-Trichlorophenol	663	691.8		ug/Kg		104	39 - 130
2,4,5-Trichlorophenol	663	714.3		ug/Kg		108	41 - 130
Dimethyl phthalate	663	732.0		ug/Kg		110	40 - 130
Acenaphthylene	663	717.5		ug/Kg		108	39 - 130
2,6-Dinitrotoluene	663	718.6		ug/Kg		108	44 - 130
Acenaphthene	663	691.9		ug/Kg		104	42 - 130
Dinitrophenols	1330	1084		ug/Kg		82	15 - 130
2,4-Dinitrotoluene	663	719.1		ug/Kg		109	45 - 130
Diethyl phthalate	663	753.6		ug/Kg		114	50 - 130
Fluorene	663	722.7		ug/Kg		109	46 - 130
Dinitro-o-cresol	1330	1237		ug/Kg		93	38 - 130
N-Nitrosodiphenylamine	663	778.1		ug/Kg		117	48 - 130
Diphenylhydrazine, 1,2-	663	789.2		ug/Kg		119	50 - 130
Hexachlorobenzene	663	733.7		ug/Kg		111	44 - 130
Atrazine	663	523.8		ug/Kg		79	10 - 140
Pentachlorophenol	1330	1166		ug/Kg		88	40 - 130
Phenanthrene	663	759.4		ug/Kg		115	51 - 130
Anthracene	663	775.6		ug/Kg		117	51 - 130
Dibutylphthalate	663	860.8		ug/Kg		130	51 - 135
Fluoranthene	663	763.4		ug/Kg		115	53 - 130
Benzidine	3310	861.3		ug/Kg		26	10 - 130
Pyrene	663	785.6		ug/Kg		119	53 - 130
Dichlorobenzidine, 3,3'-	663	456.2		ug/Kg		69	13 - 146
Benzo[a]anthracene	663	760.5		ug/Kg		115	54 - 130
Di (2-ethylhexyl)phthalate	663	842.8		ug/Kg		127	41 - 145
Chrysene	663	776.4		ug/Kg		117	52 - 130
Benzo[b]fluoranthene	663	733.1		ug/Kg		111	41 - 139
Benzo[k]fluoranthene	663	726.2		ug/Kg		110	42 - 134
Benzo[a]pyrene	663	719.7		ug/Kg		109	44 - 131
Indeno[1,2,3-cd]pyrene	663	738.7		ug/Kg		111	35 - 146
Dibenz(a,h)anthracene	663	775.0		ug/Kg		117	40 - 137
Benzo[g,h,i]perylene	663	778.5		ug/Kg		117	38 - 142
bis (2-chloroisopropyl) ether	663	638.6		ug/Kg		96	38 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	100		10 - 148

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A

Matrix: Solid

Analysis Batch: 301300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300979

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	98		38 - 130
2-Fluorophenol	91		25 - 132
Nitrobenzene-d5	95		10 - 155
Terphenyl-d14	112		53 - 134
Phenol-d5 (Surr)	93		27 - 130

Lab Sample ID: MB 600-301327/1-A

Matrix: Solid

Analysis Batch: 301390

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.17	U	33.1	4.17	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
N-Nitrosodiethylamine	7.14	U	33.1	7.14	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Bis(2-chloroethyl)ether	1.64	U	33.1	1.64	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Hexachloroethane	2.30	U	33.1	2.30	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
N-Nitrosopyrrolidine	4.65	U	33.1	4.65	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Nitrobenzene	2.94	U	33.1	2.94	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Isophorone	0.995	U	33.1	0.995	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
2,4-Dichlorophenol	3.85	U	33.1	3.85	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Naphthalene	1.34	U	33.1	1.34	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Hexachlorobutadiene	1.91	U	33.1	1.91	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
N-Nitrosodi-n-butylamine	16.6	U	33.1	16.6	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
2-Methylnaphthalene	2.73	U	33.1	2.73	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
1-Methylnaphthalene	1.56	U	33.1	1.56	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
1,2,4,5-Tetrachlorobenzene	6.71	U	33.1	6.71	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Hexachlorocyclopentadiene	4.59	U	33.1	4.59	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
2,4,6-Trichlorophenol	2.67	U	33.1	2.67	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
2,4,5-Trichlorophenol	9.96	U	33.1	9.96	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Dimethyl phthalate	4.86	U	66.3	4.86	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Acenaphthylene	0.995	U	33.1	0.995	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
2,6-Dinitrotoluene	2.93	U	33.1	2.93	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Acenaphthene	1.43	U	33.1	1.43	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Dinitrophenols	4.69	U	99.5	4.69	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Pentachlorobenzene	3.99	U	33.1	3.99	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
2,4-Dinitrotoluene	3.59	U	33.1	3.59	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Diethyl phthalate	8.39	U	66.3	8.39	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Fluorene	2.35	U	33.1	2.35	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Dinitro-o-cresol	4.95	U	169	4.95	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
N-Nitrosodiphenylamine	1.88	U	33.1	1.88	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Diphenylhydrazine, 1,2-	1.61	U	33.1	1.61	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Hexachlorobenzene	1.51	U	33.1	1.51	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Atrazine	4.99	U	33.1	4.99	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Pentachlorophenol	3.98	U	166	3.98	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Phenanthrene	4.92	U	33.1	4.92	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Anthracene	1.27	U	33.1	1.27	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Dibutylphthalate	2.58	U	66.3	2.58	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Fluoranthene	3.09	U	33.1	3.09	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Benzidine	8.97	U	328	8.97	ug/Kg		08/17/20 09:22	08/17/20 17:11	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-301327/1-A

Matrix: Solid

Analysis Batch: 301390

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	1.82	U	33.1	1.82	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Dichlorobenzidine, 3,3'-	10.1	U	33.1	10.1	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Benzo[a]anthracene	1.37	U	33.1	1.37	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Di (2-ethylhexyl)phthalate	21.05	J	33.1	5.34	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Chrysene	1.01	U	33.1	1.01	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Benzo[b]fluoranthene	1.71	U	33.1	1.71	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Benzo[k]fluoranthene	1.48	U	33.1	1.48	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Benzo[a]pyrene	1.60	U	33.1	1.60	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Indeno[1,2,3-cd]pyrene	3.48	U	33.1	3.48	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Dibenz(a,h)anthracene	3.61	U	33.1	3.61	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Benzo[g,h,i]perylene	5.04	U	33.1	5.04	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
bis (2-chloroisopropyl) ether	8.79	U	33.1	8.79	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Thiophene, tetrahydro-, 1,1-dioxide	16.6	U	33.1	16.6	ug/Kg		08/17/20 09:22	08/17/20 17:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	51		10 - 148	08/17/20 09:22	08/17/20 17:11	1
2-Fluorobiphenyl	89		38 - 130	08/17/20 09:22	08/17/20 17:11	1
2-Fluorophenol	88		25 - 132	08/17/20 09:22	08/17/20 17:11	1
Nitrobenzene-d5	88		10 - 155	08/17/20 09:22	08/17/20 17:11	1
Terphenyl-d14	105		53 - 134	08/17/20 09:22	08/17/20 17:11	1
Phenol-d5 (Surr)	85		27 - 130	08/17/20 09:22	08/17/20 17:11	1

Lab Sample ID: LCS 600-301327/12-A

Matrix: Solid

Analysis Batch: 301550

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Thiophene, tetrahydro-, 1,1-dioxide	664	972.6		ug/Kg		146	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	70		10 - 148
2-Fluorobiphenyl	85		38 - 130
2-Fluorophenol	78		25 - 132
Nitrobenzene-d5	80		10 - 155
Terphenyl-d14	105		53 - 134
Phenol-d5 (Surr)	76		27 - 130

Lab Sample ID: LCS 600-301327/2-A

Matrix: Solid

Analysis Batch: 301390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
N-Nitrosodimethylamine	666	537.8		ug/Kg		81	29 - 130
Bis(2-chloroethyl)ether	666	571.9		ug/Kg		86	40 - 130
Hexachloroethane	666	567.5		ug/Kg		85	37 - 130
Nitrobenzene	666	588.2		ug/Kg		88	42 - 130
Isophorone	666	617.0		ug/Kg		93	39 - 130

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-301327/2-A

Matrix: Solid

Analysis Batch: 301390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dichlorophenol	666	632.9		ug/Kg		95	38 - 130
Naphthalene	666	582.8		ug/Kg		88	40 - 130
Hexachlorobutadiene	666	581.9		ug/Kg		87	36 - 130
2-Methylnaphthalene	666	619.8		ug/Kg		93	43 - 130
1-Methylnaphthalene	666	589.9		ug/Kg		89	43 - 130
1,2,4,5-Tetrachlorobenzene	666	595.7		ug/Kg		89	37 - 130
Hexachlorocyclopentadiene	666	644.6		ug/Kg		97	10 - 130
2,4,6-Trichlorophenol	666	580.7		ug/Kg		87	39 - 130
2,4,5-Trichlorophenol	666	658.9		ug/Kg		99	41 - 130
Dimethyl phthalate	666	676.5		ug/Kg		102	40 - 130
Acenaphthylene	666	652.0		ug/Kg		98	39 - 130
2,6-Dinitrotoluene	666	656.5		ug/Kg		99	44 - 130
Acenaphthene	666	621.9		ug/Kg		93	42 - 130
Dinitrophenols	1330	1162		ug/Kg		87	15 - 130
2,4-Dinitrotoluene	666	663.5		ug/Kg		100	45 - 130
Diethyl phthalate	666	680.4		ug/Kg		102	50 - 130
Fluorene	666	649.7		ug/Kg		98	46 - 130
Dinitro-o-cresol	1330	1226		ug/Kg		92	38 - 130
N-Nitrosodiphenylamine	666	724.6		ug/Kg		109	48 - 130
Diphenylhydrazine, 1,2-	666	695.5		ug/Kg		104	50 - 130
Hexachlorobenzene	666	664.3		ug/Kg		100	44 - 130
Atrazine	1330	1316		ug/Kg		99	10 - 140
Pentachlorophenol	1330	1041		ug/Kg		78	40 - 130
Phenanthrene	666	674.1		ug/Kg		101	51 - 130
Anthracene	666	702.2		ug/Kg		105	51 - 130
Dibutylphthalate	666	767.0		ug/Kg		115	51 - 135
Fluoranthene	666	688.2		ug/Kg		103	53 - 130
Benzidine	3330	2278	E	ug/Kg		68	10 - 130
Pyrene	666	727.1		ug/Kg		109	53 - 130
Dichlorobenzidine, 3,3'-	666	476.2		ug/Kg		72	13 - 146
Benzo[a]anthracene	666	692.2		ug/Kg		104	54 - 130
Di (2-ethylhexyl)phthalate	666	796.6		ug/Kg		120	41 - 145
Chrysene	666	688.5		ug/Kg		103	52 - 130
Benzo[b]fluoranthene	666	669.9		ug/Kg		101	41 - 139
Benzo[k]fluoranthene	666	658.1		ug/Kg		99	42 - 134
Benzo[a]pyrene	666	635.8		ug/Kg		95	44 - 131
Indeno[1,2,3-cd]pyrene	666	650.3		ug/Kg		98	35 - 146
Dibenz(a,h)anthracene	666	668.0		ug/Kg		100	40 - 137
Benzo[g,h,i]perylene	666	711.1		ug/Kg		107	38 - 142
bis (2-chloroisopropyl) ether	666	549.5		ug/Kg		83	38 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	86		10 - 148
2-Fluorobiphenyl	90		38 - 130
2-Fluorophenol	83		25 - 132
Nitrobenzene-d5	87		10 - 155
Terphenyl-d14	104		53 - 134
Phenol-d5 (Surr)	83		27 - 130

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-301327/3-A

Matrix: Solid

Analysis Batch: 301390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	663	570.7		ug/Kg		86	50 - 150
N-Nitrosopyrrolidine	663	602.1		ug/Kg		91	50 - 150
N-Nitrosodi-n-butylamine	663	465.4		ug/Kg		70	50 - 150
Pentachlorobenzene	663	535.2		ug/Kg		81	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	85		10 - 148
2-Fluorobiphenyl	88		38 - 130
2-Fluorophenol	84		25 - 132
Nitrobenzene-d5	84		10 - 155
Terphenyl-d14	104		53 - 134
Phenol-d5 (Surr)	77		27 - 130

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-500724/1-A

Matrix: Solid

Analysis Batch: 501018

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 500724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg	-	08/18/20 13:25	08/20/20 15:59	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenylphosphate	75		30 - 164				08/18/20 13:25	08/20/20 15:59	1

Lab Sample ID: LCS 400-500724/2-A

Matrix: Solid

Analysis Batch: 501018

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 500724

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Prometon			333	252.5		ug/Kg		76	40 - 140		
			LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits								
Triphenylphosphate	87		30 - 164								

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

Lab Sample ID: MB 600-300806/1-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300806

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg		08/10/20 15:56	08/13/20 11:51	1
C28-C36	4.97	U	4.97	4.97	mg/Kg		08/10/20 15:56	08/13/20 11:51	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
o-Terphenyl	125		60 - 140	08/10/20 15:56	08/13/20 11:51	1			

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

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

Lab Sample ID: LCS 600-300806/2-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.6	70.64		mg/Kg		106	66 - 134
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
o-Terphenyl	131		60 - 140				

Lab Sample ID: LCSD 600-300806/3-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300806

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Diesel Range Organics [C10-C28]			66.6	75.11		mg/Kg		113	66 - 134	6	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
o-Terphenyl	131		60 - 140								

Lab Sample ID: MB 600-301059/1-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301059

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg		08/13/20 07:17	08/15/20 09:49	1
C28-C36	4.97	U	4.97	4.97	mg/Kg		08/13/20 07:17	08/15/20 09:49	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
o-Terphenyl	99		60 - 140				08/13/20 07:17	08/15/20 09:49	1

Lab Sample ID: LCS 600-301059/2-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.4	51.72		mg/Kg		78	66 - 134
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
o-Terphenyl	71		60 - 140				

Lab Sample ID: LCSD 600-301059/3-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 301059

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Diesel Range Organics [C10-C28]	66.4	54.22		mg/Kg		82	66 - 134	5	30

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

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

Lab Sample ID: LCSD 600-301059/3-A

Matrix: Solid

Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 301059

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	76		60 - 140

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 600-300862/1-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.30	U	1.69	1.30	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, beta-	1.02	U	1.69	1.02	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, delta-	0.847	U	1.69	0.847	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, alpha-	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, gamma-	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Chlordane (technical)	23.3	U	74.7	23.3	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
DDT	1.84	U	3.29	1.84	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Dieldrin	1.38	U	3.29	1.38	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan I	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan II	1.50	U	3.29	1.50	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan sulfate	1.67	U	3.29	1.67	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin	1.52	U	3.29	1.52	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin aldehyde	1.55	U	3.29	1.55	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor epoxide	1.17	U	1.69	1.17	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Toxaphene	72.8	U	169	72.8	ug/Kg		08/11/20 08:51	08/11/20 19:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB</i> Decachlorobiphenyl	127		47 - 150	08/11/20 08:51	08/11/20 19:37	1
Tetrachloro- <i>m</i> -xylene	116		50 - 143	08/11/20 08:51	08/11/20 19:37	1

Lab Sample ID: LCS 600-300862/2-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.6	18.06		ug/Kg		109	42 - 150
Hexachlorocyclohexane, beta-	16.6	18.03		ug/Kg		108	32 - 150
Hexachlorocyclohexane, delta-	16.6	20.49		ug/Kg		123	33 - 150
Hexachlorocyclohexane, alpha-	16.6	18.14		ug/Kg		109	63 - 130
Hexachlorocyclohexane, gamma-	16.6	18.30		ug/Kg		110	36 - 150
DDT	16.6	22.31		ug/Kg		134	46 - 150
Dieldrin	16.6	18.72		ug/Kg		113	42 - 150
Endosulfan I	16.6	13.84		ug/Kg		83	37 - 150
Endosulfan II	16.6	18.94		ug/Kg		114	43 - 150
Endosulfan sulfate	16.6	20.02		ug/Kg		120	32 - 150
Endrin	16.6	20.38		ug/Kg		123	41 - 150
Endrin aldehyde	16.6	22.48		ug/Kg		135	42 - 150
Heptachlor	16.6	18.17		ug/Kg		109	35 - 150

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 600-300862/2-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor epoxide	16.6	17.12		ug/Kg		103	42 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	76		47 - 150
Tetrachloro-m-xylene	74		50 - 143

Lab Sample ID: LCSD 600-300862/3-A

Matrix: Solid

Analysis Batch: 300913

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 300862

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Aldrin	16.6	17.36		ug/Kg		104	42 - 150	4	20
Hexachlorocyclohexane, beta-	16.6	18.09		ug/Kg		109	32 - 150	0	20
Hexachlorocyclohexane, delta-	16.6	20.47		ug/Kg		123	33 - 150	0	20
Hexachlorocyclohexane, alpha-	16.6	16.93		ug/Kg		102	63 - 130	7	20
Hexachlorocyclohexane, gamma-	16.6	17.29		ug/Kg		104	36 - 150	6	20
DDT	16.6	22.58		ug/Kg		136	46 - 150	1	20
Dieldrin	16.6	18.96		ug/Kg		114	42 - 150	1	20
Endosulfan I	16.6	14.22		ug/Kg		86	37 - 150	3	20
Endosulfan II	16.6	18.23		ug/Kg		110	43 - 150	4	20
Endosulfan sulfate	16.6	20.67		ug/Kg		124	32 - 150	3	20
Endrin	16.6	21.64		ug/Kg		130	41 - 150	6	20
Endrin aldehyde	16.6	23.30		ug/Kg		140	42 - 150	4	20
Heptachlor	16.6	16.75		ug/Kg		101	35 - 150	8	20
Heptachlor epoxide	16.6	16.99		ug/Kg		102	42 - 150	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	104		47 - 150
Tetrachloro-m-xylene	89		50 - 143

Lab Sample ID: MB 600-301410/1-A

Matrix: Solid

Analysis Batch: 301944

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.30	U	1.69	1.30	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Hexachlorocyclohexane, beta-	1.01	U	1.69	1.01	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Hexachlorocyclohexane, delta-	0.845	U	1.69	0.845	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Hexachlorocyclohexane, alpha-	0.994	U	1.69	0.994	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Hexachlorocyclohexane, gamma-	0.924	U	1.69	0.924	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Chlordane (technical)	23.3	U	74.6	23.3	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
DDT	1.84	U	3.28	1.84	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Dieldrin	1.38	U	3.28	1.38	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Endosulfan I	0.994	U	1.69	0.994	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Endosulfan II	1.50	U	3.28	1.50	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Endosulfan sulfate	1.67	U	3.28	1.67	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Endrin	1.52	U	3.28	1.52	ug/Kg		08/18/20 05:27	08/24/20 12:54	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 600-301410/1-A

Matrix: Solid

Analysis Batch: 301944

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	1.55	U	3.28	1.55	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Heptachlor	0.924	U	1.69	0.924	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Heptachlor epoxide	1.16	U	1.69	1.16	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Toxaphene	72.7	U	169	72.7	ug/Kg		08/18/20 05:27	08/24/20 12:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	93		47 - 150	08/18/20 05:27	08/24/20 12:54	1
Tetrachloro-m-xylene	67		50 - 143	08/18/20 05:27	08/24/20 12:54	1

Lab Sample ID: LCS 600-301410/2-A

Matrix: Solid

Analysis Batch: 301944

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.6	15.37		ug/Kg		92	42 - 150
Hexachlorocyclohexane, beta-	16.6	16.67		ug/Kg		100	32 - 150
Hexachlorocyclohexane, delta-	16.6	16.91		ug/Kg		102	33 - 150
Hexachlorocyclohexane, alpha-	16.6	15.46		ug/Kg		93	63 - 130
Hexachlorocyclohexane, gamma-	16.6	15.57		ug/Kg		94	36 - 150
DDT	16.6	18.92		ug/Kg		114	46 - 150
Dieldrin	16.6	16.08		ug/Kg		97	42 - 150
Endosulfan I	16.6	13.01		ug/Kg		78	37 - 150
Endosulfan II	16.6	16.33		ug/Kg		98	43 - 150
Endosulfan sulfate	16.6	17.39		ug/Kg		105	32 - 150
Endrin	16.6	16.48		ug/Kg		99	41 - 150
Endrin aldehyde	16.6	19.77		ug/Kg		119	42 - 150
Heptachlor	16.6	15.49		ug/Kg		93	35 - 150
Heptachlor epoxide	16.6	14.62		ug/Kg		88	42 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	86		47 - 150
Tetrachloro-m-xylene	72		50 - 143

Lab Sample ID: LCSD 600-301410/3-A

Matrix: Solid

Analysis Batch: 301944

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 301410

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	16.6	13.47		ug/Kg		81	42 - 150	13	20
Hexachlorocyclohexane, beta-	16.6	14.17		ug/Kg		85	32 - 150	16	20
Hexachlorocyclohexane, delta-	16.6	14.83		ug/Kg		89	33 - 150	13	20
Hexachlorocyclohexane, alpha-	16.6	13.81		ug/Kg		83	63 - 130	11	20
Hexachlorocyclohexane, gamma-	16.6	13.73		ug/Kg		83	36 - 150	13	20
DDT	16.6	16.82		ug/Kg		101	46 - 150	12	20
Dieldrin	16.6	14.25		ug/Kg		86	42 - 150	12	20
Endosulfan I	16.6	11.27		ug/Kg		68	37 - 150	14	20
Endosulfan II	16.6	14.83		ug/Kg		89	43 - 150	10	20

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 600-301410/3-A

Matrix: Solid

Analysis Batch: 301944

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 301410

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endosulfan sulfate	16.6	15.21		ug/Kg		92	32 - 150	13	20
Endrin	16.6	14.64		ug/Kg		88	41 - 150	12	20
Endrin aldehyde	16.6	17.27		ug/Kg		104	42 - 150	14	20
Heptachlor	16.6	13.58		ug/Kg		82	35 - 150	13	20
Heptachlor epoxide	16.6	12.88		ug/Kg		78	42 - 150	13	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	78		47 - 150
Tetrachloro-m-xylene	64		50 - 143

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 600-301410/1-A

Matrix: Solid

Analysis Batch: 301545

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00159	U	0.0166	0.00159	mg/Kg		08/18/20 05:27	08/19/20 13:34	1
PCB-1221	0.00858	U	0.0166	0.00858	mg/Kg		08/18/20 05:27	08/19/20 13:34	1
PCB-1232	0.00666	U	0.0166	0.00666	mg/Kg		08/18/20 05:27	08/19/20 13:34	1
PCB-1242	0.00123	U	0.0166	0.00123	mg/Kg		08/18/20 05:27	08/19/20 13:34	1
PCB-1248	0.00248	U	0.0166	0.00248	mg/Kg		08/18/20 05:27	08/19/20 13:34	1
PCB-1254	0.00220	U	0.0166	0.00220	mg/Kg		08/18/20 05:27	08/19/20 13:34	1
PCB-1260	0.0134	U	0.0166	0.0134	mg/Kg		08/18/20 05:27	08/19/20 13:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		10 - 150	08/18/20 05:27	08/19/20 13:34	1
DCB Decachlorobiphenyl	116		10 - 150	08/18/20 05:27	08/19/20 13:34	1

Lab Sample ID: LCS 600-301410/4-A

Matrix: Solid

Analysis Batch: 301545

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.166	0.1879		mg/Kg		113	42 - 130
PCB-1260	0.166	0.1491		mg/Kg		90	59 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	83		10 - 150
DCB Decachlorobiphenyl	92		10 - 150

Lab Sample ID: LCSD 600-301410/5-A

Matrix: Solid

Analysis Batch: 301545

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 301410

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	0.166	0.2048		mg/Kg		123	42 - 130	9	30
PCB-1260	0.166	0.1970		mg/Kg		118	59 - 135	28	30

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 600-301410/5-A

Matrix: Solid

Analysis Batch: 301545

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 301410

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	98		10 - 150
DCB Decachlorobiphenyl	127		10 - 150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/11/20 11:50	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/11/20 11:50	1

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/12/20 02:57	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/12/20 02:57	1

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	
Nitrate as N	100	98.87		mg/Kg		99	90 - 110		
Nitrite as N	100	101.4		mg/Kg		101	90 - 110		

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	
Nitrate as N	100	91.93		mg/Kg		92	90 - 110		
Nitrite as N	100	100.5		mg/Kg		100	90 - 110		

Lab Sample ID: 600-209488-2 MS

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: CELL21-SQUARE21-S-2-3-200807

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS				
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	%Rec.
Nitrate as N	7.27		21.9	26.51		mg/Kg	☼	88	80 - 120
Nitrite as N	0.325	U	21.9	22.91		mg/Kg	☼	105	80 - 120

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 600-209488-2 MSD

Matrix: Solid

Analysis Batch: 300880

Client Sample ID: CELL21-SQUARE21-S-2-3-200807

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	7.27		21.9	26.21		mg/Kg	☼	87	80 - 120	1	20
Nitrite as N	0.325	U	21.9	22.78		mg/Kg	☼	104	80 - 120	1	20

Lab Sample ID: MB 600-300916/1-A

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			08/11/20 11:50	1
Fluoride	0.601	U	2.00	0.601	mg/Kg			08/11/20 11:50	1
Sulfate	0.957	U	5.00	0.957	mg/Kg			08/11/20 11:50	1

Lab Sample ID: LCS 600-300916/2-A

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	193.0		mg/Kg		97	90 - 110
Fluoride	75.0	82.00		mg/Kg		109	90 - 110
Sulfate	200	193.9		mg/Kg		97	90 - 110

Lab Sample ID: 600-209488-2 MS

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: CELL21-SQUARE21-S-2-3-200807

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.14	J	109	112.0		mg/Kg	☼	100	80 - 120
Fluoride	10.1		21.9	31.48		mg/Kg	☼	98	80 - 120
Sulfate	47.3		109	149.4		mg/Kg	☼	93	80 - 120

Lab Sample ID: 600-209488-2 MSD

Matrix: Solid

Analysis Batch: 300881

Client Sample ID: CELL21-SQUARE21-S-2-3-200807

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.14	J	109	110.2		mg/Kg	☼	98	80 - 120	2	20
Fluoride	10.1		21.9	31.27		mg/Kg	☼	97	80 - 120	1	20
Sulfate	47.3		109	149.1		mg/Kg	☼	93	80 - 120	0	20

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-505436/1-A

Matrix: Solid

Analysis Batch: 505596

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505436

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		08/12/20 15:04	08/13/20 16:41	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		08/12/20 15:04	08/13/20 16:41	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		08/12/20 15:04	08/13/20 16:41	1

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: MB 280-505436/1-A

Matrix: Solid

Analysis Batch: 505596

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505436

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	102		83 - 122	08/12/20 15:04	08/13/20 16:41	1

Lab Sample ID: LCS 280-505436/2-A

Matrix: Solid

Analysis Batch: 505596

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505436

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	1.051		mg/Kg		105	80 - 124
2,4,6-Trinitrotoluene	1.00	1.050		mg/Kg		105	80 - 120

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

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: MB 280-505376/1-A

Matrix: Solid

Analysis Batch: 506026

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		08/12/20 11:00	08/20/20 14:31	1

Lab Sample ID: LCS 280-505376/2-A

Matrix: Solid

Analysis Batch: 506026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5330		ug/Kg		107	80 - 120

Lab Sample ID: DLCK 280-506024/12

Matrix: Solid

Analysis Batch: 506024

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	0.04997	J	ug/L		100	70 - 130

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-500633/14

Matrix: Solid

Analysis Batch: 500633

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	0.4920	J	ug/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4537	J	ug/L		100	70 - 130

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: DLCK 280-500633/14

Matrix: Solid

Analysis Batch: 500633

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		92	70 - 130

Surrogate	DLCK %Recovery	DLCK Qualifier	Limits
13C8 PFOA	108		57 - 153
13C8 PFOS	91		70 - 130

Lab Sample ID: MB 280-505864/1-A

Matrix: Solid

Analysis Batch: 506717

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 505864

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		08/17/20 14:49	08/24/20 11:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		08/17/20 14:49	08/24/20 11:46	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		08/17/20 14:49	08/24/20 11:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	08/17/20 14:49	08/24/20 11:46	1
13C8 PFOS	94		70 - 130	08/17/20 14:49	08/24/20 11:46	1

Lab Sample ID: LCS 280-505864/2-A

Matrix: Solid

Analysis Batch: 506717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 505864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	18.81		ug/Kg		94	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	16.81		ug/Kg		92	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	18.69		ug/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
13C8 PFOA	101		57 - 153
13C8 PFOS	98		70 - 130

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-481632/1-A ^2

Matrix: Solid

Analysis Batch: 481844

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 481632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0729	U	0.195	0.0729	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Arsenic	0.389	U	0.973	0.389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Barium	0.486	U	1.95	0.486	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Beryllium	0.0389	U	0.0973	0.0389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Cadmium	0.0233	U	0.0486	0.0233	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Chromium	0.438	U	0.973	0.438	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Iron	5.84	U	11.7	5.84	mg/Kg		09/04/20 10:33	09/09/20 19:03	2

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 160-481632/1-A ^2

Matrix: Solid

Analysis Batch: 481844

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 481632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.389	U	0.973	0.389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Manganese	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Lead	0.122	U	0.292	0.122	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Antimony	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Selenium	0.311	U	0.486	0.311	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Thallium	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Zinc	1.95	U	4.86	1.95	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Uranium	0.0389	U	0.0973	0.0389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2

Lab Sample ID: LCSSRM 160-481632/3-A ^10

Matrix: Solid

Analysis Batch: 481844

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 481632

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	40.3	37.10		mg/Kg		92.1	69.2 - 130.8
Arsenic	95.5	92.41		mg/Kg		96.8	70.1 - 129.8
Barium	300	273.8		mg/Kg		91.3	75.0 - 125.0
Beryllium	103	99.40		mg/Kg		96.5	75.0 - 125.2
Cadmium	135	134.8		mg/Kg		99.8	125. - 74.82
Chromium	147	137.0		mg/Kg		93.2	70.1 - 129.9
Iron	14400	11610		mg/Kg		80.6	35.8 - 164.6
Copper	150	155.4		mg/Kg		103.6	75.3 - 125.3
Manganese	677	697.6		mg/Kg		103.0	78.1 - 122.0
Lead	92.3	89.28		mg/Kg		96.7	70.0 - 130.0
Antimony	120	60.58		mg/Kg		50.5	19.0 - 251.7
Selenium	42.0	41.47		mg/Kg		98.7	55.7 - 144.5
Thallium	83.1	83.63		mg/Kg		100.6	65.3 - 134.8
Zinc	369	375.6		mg/Kg		101.8	69.9 - 130.1
Uranium	70.1	67.82		mg/Kg		96.8	64.9 - 135.0

Lab Sample ID: 600-209488-1 MS

Matrix: Solid

Analysis Batch: 481844

Client Sample ID: CELL20-SQUARE154-S-2-3-200807

Prep Type: Total/NA

Prep Batch: 481632

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.802	U	19.6	17.33		mg/Kg	✱	88	75 - 125
Arsenic	4.39	J	98.1	100.4		mg/Kg	✱	98	75 - 125
Barium	477		98.1	735.8	4	mg/Kg	✱	264	75 - 125

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 600-209488-1 MS

Client Sample ID: CELL20-SQUARE154-S-2-3-200807

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 481844

Prep Batch: 481632

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.428	U	9.82	8.579		mg/Kg	✱	87	75 - 125
Cadmium	0.257	U	98.0	89.74		mg/Kg	✱	92	75 - 125
Chromium	4.81	U	98.1	94.39		mg/Kg	✱	96	75 - 125
Iron	1170		981	2254		mg/Kg	✱	110	75 - 125
Copper	4.28	U	98.0	87.35		mg/Kg	✱	89	75 - 125
Manganese	6.07		98.1	107.1		mg/Kg	✱	103	75 - 125
Lead	1.34	U	98.0	96.28		mg/Kg	✱	98	75 - 125
Antimony	2.14	U	49.0	36.53	N1	mg/Kg	✱	74	75 - 125
Selenium	3.42	U	49.0	48.73		mg/Kg	✱	99	75 - 125
Thallium	2.14	U	19.6	18.53		mg/Kg	✱	95	75 - 125
Zinc	21.4	U	98.0	97.49		mg/Kg	✱	99	75 - 125
Uranium	0.428	U	98.1	96.53		mg/Kg	✱	98	75 - 125

Lab Sample ID: 600-209488-1 MSD

Client Sample ID: CELL20-SQUARE154-S-2-3-200807

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 481844

Prep Batch: 481632

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.802	U	22.2	20.15		mg/Kg	✱	91	75 - 125	15	30
Arsenic	4.39	J	111	116.4		mg/Kg	✱	101	75 - 125	15	30
Barium	477		111	575.3	4	mg/Kg	✱	88	75 - 125	24	30
Beryllium	0.428	U	11.1	10.43		mg/Kg	✱	94	75 - 125	19	30
Cadmium	0.257	U	111	104.5		mg/Kg	✱	94	75 - 125	15	30
Chromium	4.81	U	111	109.9		mg/Kg	✱	99	75 - 125	15	30
Iron	1170		1110	2555		mg/Kg	✱	124	75 - 125	13	30
Copper	4.28	U	111	100.7		mg/Kg	✱	91	75 - 125	14	30
Manganese	6.07		111	121.7		mg/Kg	✱	104	75 - 125	13	30
Lead	1.34	U	111	110.4		mg/Kg	✱	99	75 - 125	14	30
Antimony	2.14	U	55.6	42.72		mg/Kg	✱	77	75 - 125	16	30
Selenium	3.42	U	55.5	54.00		mg/Kg	✱	97	75 - 125	10	30
Thallium	2.14	U	22.2	21.44		mg/Kg	✱	97	75 - 125	15	30
Zinc	21.4	U	111	107.2		mg/Kg	✱	97	75 - 125	10	30
Uranium	0.428	U	111	111.2		mg/Kg	✱	100	75 - 125	14	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 600-302704/7-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 302818

Prep Batch: 302704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00341	U	0.0162	0.00341	mg/Kg		09/02/20 13:16	09/03/20 13:22	1

Lab Sample ID: LCS 600-302704/8-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 302818

Prep Batch: 302704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.2549		mg/Kg		110	70 - 130

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 600-209488-2 MS

Matrix: Solid

Analysis Batch: 302818

Client Sample ID: CELL21-SQUARE21-S-2-3-200807

Prep Type: Total/NA

Prep Batch: 302704

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00350	U	0.245	0.2034		mg/Kg	✱	83	75 - 125

Lab Sample ID: 600-209488-2 DU

Matrix: Solid

Analysis Batch: 302818

Client Sample ID: CELL21-SQUARE21-S-2-3-200807

Prep Type: Total/NA

Prep Batch: 302704

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.00350	U	0.00350	U	mg/Kg	✱	NC	20

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: LB 600-301322/1-A

Matrix: Solid

Analysis Batch: 301367

Client Sample ID: Method Blank

Prep Type: 7 Day Leach

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			08/17/20 11:57	1

Method: 2540B - Percent Moisture

Lab Sample ID: 600-209488-1 DU

Matrix: Solid

Analysis Batch: 300956

Client Sample ID: CELL20-SQUARE154-S-2-3-200807

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Moisture	11.8		11.4		%		4	20
Percent Solids	88.2		88.6		%		0.5	20

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 600-301738/1-A

Matrix: Solid

Analysis Batch: 301760

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00150	U	0.0100	0.00150	mg/Kg		08/20/20 13:55	08/20/20 17:40	1

Lab Sample ID: LCS 600-301738/2-A

Matrix: Solid

Analysis Batch: 301760

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.1007		mg/Kg		101	90 - 110

Lab Sample ID: 600-209488-1 MS

Matrix: Solid

Analysis Batch: 301760

Client Sample ID: CELL20-SQUARE154-S-2-3-200807

Prep Type: Total/NA

Prep Batch: 301738

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0198	U	1.33	0.1305	J N1	mg/Kg	✱	10	90 - 110

Eurofins TestAmerica, Houston

QC Sample Results

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

Job ID: 600-209488-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: 600-209488-1 MSD

Matrix: Solid

Analysis Batch: 301760

Client Sample ID: CELL20-SQUARE154-S-2-3-200807

Prep Type: Total/NA

Prep Batch: 301738

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.0198	U	1.33	0.1437	N1	mg/Kg	☆	11	90 - 110	10	20

Method: 9045D - pH

Lab Sample ID: 600-209488-2 DU

Matrix: Solid

Analysis Batch: 302075

Client Sample ID: CELL21-SQUARE21-S-2-3-200807

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.7	H	8.7		SU		0.5	1

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation)

Lab Sample ID: MB 600-301712/1-A

Matrix: Solid

Analysis Batch: 301753

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 301712

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.00419	U	0.00500	0.00419	mg/Kg		08/20/20 12:06	08/20/20 16:09	1

Lab Sample ID: LCS 600-301712/2-A

Matrix: Solid

Analysis Batch: 301753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 301712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.100	0.09758		mg/Kg		98	90 - 110

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-479981/1-A

Matrix: Solid

Analysis Batch: 482295

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 479981

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03656	U	0.0485	0.0486	1.00	0.529	pCi/g	08/20/20 11:43	09/12/20 09:20	1
Radium-228	0.1104	U	0.223	0.224		0.307	pCi/g	08/20/20 11:43	09/12/20 09:20	1
Combined Radium 226 + 228	0.1470	U	0.228	0.229		0.529	pCi/g	08/20/20 11:43	09/12/20 09:20	1

Lab Sample ID: LCS 160-479981/2-A

Matrix: Solid

Analysis Batch: 482368

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 479981

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.5	94.70		9.93		0.973	pCi/g	98	87 - 116
Cesium-137	26.9	25.80		2.74		0.148	pCi/g	96	87 - 120
Cobalt-60	9.78	9.353		0.981		0.0584	pCi/g	96	87 - 115

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209488-1

GC/MS VOA

Prep Batch: 300996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	5030B	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	5030B	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	5030B	

Analysis Batch: 301050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	8260B	300996
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	8260B	300996
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	8260B	300996
MB 600-301050/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-301050/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-301050/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 300979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	3546	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300979/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 301300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-300979/1-A	Method Blank	Total/NA	Solid	8270C LL	300979
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979

Prep Batch: 301327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	3546	
MB 600-301327/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-301327/12-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-301327/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-301327/3-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 301390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	8270C LL	301327
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	8270C LL	300979
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	8270C LL	300979
MB 600-301327/1-A	Method Blank	Total/NA	Solid	8270C LL	301327
LCS 600-301327/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	301327
LCS 600-301327/3-A	Lab Control Sample	Total/NA	Solid	8270C LL	301327

Analysis Batch: 301550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-301327/12-A	Lab Control Sample	Total/NA	Solid	8270C LL	301327

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QC Association Summary

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

Job ID: 600-209488-1

GC/MS Semi VOA

Prep Batch: 500724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	3546	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	3546	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	3546	
MB 400-500724/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-500724/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 501018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	8270D	500724
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	8270D	500724
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	8270D	500724
MB 400-500724/1-A	Method Blank	Total/NA	Solid	8270D	500724
LCS 400-500724/2-A	Lab Control Sample	Total/NA	Solid	8270D	500724

GC VOA

Prep Batch: 300717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	5030B	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	5030B	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	5030B	

Analysis Batch: 301053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	8015B	300717
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	8015B	300717
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	8015B	300717

GC Semi VOA

Prep Batch: 300806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	3546	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300806/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 300862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	3546	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300862/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 300913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8081A	300862
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	8081A	300862
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	300862

Eurofins TestAmerica, Houston

QC Association Summary

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

Job ID: 600-209488-1

GC Semi VOA

Prep Batch: 301059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	3546	
MB 600-301059/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-301059/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-301059/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 301085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	8015B	301059
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	8015B	300806
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	8015B	300806
MB 600-300806/1-A	Method Blank	Total/NA	Solid	8015B	300806
MB 600-301059/1-A	Method Blank	Total/NA	Solid	8015B	301059
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	8015B	300806
LCS 600-301059/2-A	Lab Control Sample	Total/NA	Solid	8015B	301059
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300806
LCSD 600-301059/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	301059

Analysis Batch: 301103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	8082	300862
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	8082	300862

Analysis Batch: 301106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	8081A	300862
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	8081A	300862

Prep Batch: 301410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	3546	
MB 600-301410/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-301410/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-301410/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-301410/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
LCSD 600-301410/5-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 301545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	8082	301410
MB 600-301410/1-A	Method Blank	Total/NA	Solid	8082	301410
LCS 600-301410/4-A	Lab Control Sample	Total/NA	Solid	8082	301410
LCSD 600-301410/5-A	Lab Control Sample Dup	Total/NA	Solid	8082	301410

Analysis Batch: 301944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	8081A	301410
MB 600-301410/1-A	Method Blank	Total/NA	Solid	8081A	301410
LCS 600-301410/2-A	Lab Control Sample	Total/NA	Solid	8081A	301410
LCSD 600-301410/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	301410

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209488-1

Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Analysis Batch: 300880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Soluble	Solid	300.0	300916
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Soluble	Solid	300.0	300916
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
600-209488-2 MS	CELL21-SQUARE21-S-2-3-200807	Soluble	Solid	300.0	300916
600-209488-2 MSD	CELL21-SQUARE21-S-2-3-200807	Soluble	Solid	300.0	300916

Analysis Batch: 300881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Soluble	Solid	300.0	300916
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Soluble	Solid	300.0	300916
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
600-209488-2 MS	CELL21-SQUARE21-S-2-3-200807	Soluble	Solid	300.0	300916
600-209488-2 MSD	CELL21-SQUARE21-S-2-3-200807	Soluble	Solid	300.0	300916

Leach Batch: 300916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Soluble	Solid	DI Leach	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Soluble	Solid	DI Leach	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Soluble	Solid	DI Leach	
MB 600-300916/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-209488-2 MS	CELL21-SQUARE21-S-2-3-200807	Soluble	Solid	DI Leach	
600-209488-2 MSD	CELL21-SQUARE21-S-2-3-200807	Soluble	Solid	DI Leach	

ISM Prep Batch: 505294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	Increment, prep	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	Increment, prep	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	Increment, prep	

Prep Batch: 505436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	8330B	505294
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	8330B	505294
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	8330B	505294
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 505596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	8330B	505436
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	8330B	505436
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	8330B	505436
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	505436
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	505436

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QC Association Summary

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

Job ID: 600-209488-1

LCMS

Analysis Batch: 500633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-500633/14	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Prep Batch: 505376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	6860	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	6860	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	6860	
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 505864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	PFC leach	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	PFC leach	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	PFC leach	
MB 280-505864/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 506024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-506024/12	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 506026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	6860	505376
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	6860	505376
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	6860	505376
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	505376
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	505376

Analysis Batch: 506717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
MB 280-505864/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	505864
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	505864

Metals

Prep Batch: 302704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	7471B	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	7471B	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	7471B	
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	
600-209488-2 MS	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	7471B	
600-209488-2 DU	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	7471B	

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QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209488-1

Project/Site: Chevron - Jal Land Farm Soils

Metals

Analysis Batch: 302818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	7471B	302704
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	7471B	302704
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	7471B	302704
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	302704
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	302704
600-209488-2 MS	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	7471B	302704
600-209488-2 DU	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	7471B	302704

Prep Batch: 481632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	3050B	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	3050B	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	3050B	
MB 160-481632/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCSSRM 160-481632/3-A ^1	Lab Control Sample	Total/NA	Solid	3050B	
600-209488-1 MS	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	3050B	
600-209488-1 MSD	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	3050B	

Analysis Batch: 481844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	6020	481632
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	6020	481632
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	6020	481632
MB 160-481632/1-A ^2	Method Blank	Total/NA	Solid	6020	481632
LCSSRM 160-481632/3-A ^1	Lab Control Sample	Total/NA	Solid	6020	481632
600-209488-1 MS	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	6020	481632
600-209488-1 MSD	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	6020	481632

General Chemistry

Analysis Batch: 300956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	2540B	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	2540B	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	2540B	
600-209488-1 DU	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	2540B	

Leach Batch: 301322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	7 Day Leach	Solid	335.521	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	7 Day Leach	Solid	335.521	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	7 Day Leach	Solid	335.521	
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	335.521	

Analysis Batch: 301367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
600-209488-2	CELL21-SQUARE21-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
600-209488-3	CELL21-SQUARE61-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	2540 C-1997	301322

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209488-1

Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Prep Batch: 301712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
MB 600-301712/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 600-301712/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Prep Batch: 301738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	9012B	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	9012B	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	9012B	
MB 600-301738/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 600-301738/2-A	Lab Control Sample	Total/NA	Solid	9012B	
600-209488-1 MS	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	9012B	
600-209488-1 MSD	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	9012B	

Analysis Batch: 301753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	9066	301712
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	9066	301712
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	9066	301712
MB 600-301712/1-A	Method Blank	Total/NA	Solid	9066	301712
LCS 600-301712/2-A	Lab Control Sample	Total/NA	Solid	9066	301712

Analysis Batch: 301760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	9012B	301738
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	9012B	301738
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	9012B	301738
MB 600-301738/1-A	Method Blank	Total/NA	Solid	9012B	301738
LCS 600-301738/2-A	Lab Control Sample	Total/NA	Solid	9012B	301738
600-209488-1 MS	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	9012B	301738
600-209488-1 MSD	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	9012B	301738

Analysis Batch: 302075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	9045D	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	9045D	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	9045D	
LCS 600-302075/1	Lab Control Sample	Total/NA	Solid	9045D	
600-209488-2 DU	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	9045D	

Rad

Leach Batch: 479526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	Dry and Grind	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	Dry and Grind	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	Dry and Grind	

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QC Association Summary

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

Job ID: 600-209488-1

Rad

Prep Batch: 479981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479526
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479526
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479526
MB 160-479981/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-479981/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

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

Job ID: 600-209488-1

Client Sample ID: CELL20-SQUARE154-S-2-3-200807

Lab Sample ID: 600-209488-1

Date Collected: 08/07/20 13:55

Matrix: Solid

Date Received: 08/08/20 10:05

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					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.73 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 22:03	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.09 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479526	08/14/20 11:54	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			342.3 g	1.0 g	479981	08/20/20 11:47	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			482295	09/12/20 11:07	SCB	TAL SL

Client Sample ID: CELL20-SQUARE154-S-2-3-200807

Lab Sample ID: 600-209488-1

Date Collected: 08/07/20 13:55

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.62 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 12:47	WS1	TAL HOU
Total/NA	Prep	3546			15.07 g	1.0 mL	301327	08/17/20 09:22	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301390	08/18/20 00:07	RP	TAL HOU
Total/NA	Prep	3546			15.13 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 18:29	PP1	TAL PEN
Total/NA	Prep	5030B			10.28 g	10 mL	300717	08/08/20 15:03	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 11:37	WS1	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	301059	08/13/20 07:17	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/15/20 11:36	RJV	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	301410	08/18/20 05:27	SMB	TAL HOU
Total/NA	Analysis	8081A		1			301944	08/24/20 14:08	JAL	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	301410	08/18/20 05:27	SMB	TAL HOU
Total/NA	Analysis	8082		1			301545	08/19/20 14:50	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 21:50	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 21:50	W1N	TAL HOU
Total/NA	Prep	6860			10.31 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 15:43	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.66 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 13:49	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5306 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 19:14	DAS	TAL SL
Total/NA	Prep	7471B			0.61 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:54	DCL	TAL HOU
Total/NA	Prep	9012B			0.516 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:42	AML	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209488-1

Client Sample ID: CELL20-SQUARE154-S-2-3-200807

Lab Sample ID: 600-209488-1

Date Collected: 08/07/20 13:55

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/Phenol			0.503 g	50.0 mL	301712	08/20/20 12:06	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301753	08/20/20 15:58	AML	TAL HOU

Client Sample ID: CELL21-SQUARE21-S-2-3-200807

Lab Sample ID: 600-209488-2

Date Collected: 08/07/20 14:24

Matrix: Solid

Date Received: 08/08/20 10:05

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					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.11 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 22:26	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.15 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479526	08/14/20 11:54	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			337.4 g	1.0 g	479981	08/20/20 11:47	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			482296	09/12/20 11:08	SCB	TAL SL

Client Sample ID: CELL21-SQUARE21-S-2-3-200807

Lab Sample ID: 600-209488-2

Date Collected: 08/07/20 14:24

Matrix: Solid

Date Received: 08/08/20 10:05

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	5030B			4.85 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 13:11	WS1	TAL HOU
Total/NA	Prep	3546			15.07 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301390	08/17/20 20:28	RP	TAL HOU
Total/NA	Prep	3546			15.09 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 18:54	PP1	TAL PEN
Total/NA	Prep	5030B			9.31 g	10 mL	300717	08/08/20 15:03	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 12:27	WS1	TAL HOU
Total/NA	Prep	3546			10.06 g	1.0 mL	300806	08/10/20 15:59	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/14/20 00:12	RJV	TAL HOU
Total/NA	Prep	3546			15.06 g	5.0 mL	300862	08/11/20 09:01	SMB	TAL HOU
Total/NA	Analysis	8081A		1			301106	08/13/20 14:12	JAL	TAL HOU
Total/NA	Prep	3546			15.06 g	5.0 mL	300862	08/11/20 09:01	SMB	TAL HOU
Total/NA	Analysis	8082		1			301103	08/13/20 14:38	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 22:11	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 22:11	W1N	TAL HOU
Total/NA	Prep	6860			10.26 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 15:49	TMC	TAL DEN

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE21-S-2-3-200807

Lab Sample ID: 600-209488-2

Date Collected: 08/07/20 14:24

Matrix: Solid

Date Received: 08/08/20 10:05

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	PFC leach			10.53 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 13:58	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5096 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 19:31	DAS	TAL SL
Total/NA	Prep	7471B			0.67 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:56	DCL	TAL HOU
Total/NA	Prep	9012B			0.508 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:44	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.502 g	50.0 mL	301712	08/20/20 12:06	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301753	08/20/20 15:59	AML	TAL HOU

Client Sample ID: CELL21-SQUARE61-S-2-3-200807

Lab Sample ID: 600-209488-3

Date Collected: 08/07/20 14:55

Matrix: Solid

Date Received: 08/08/20 10:05

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					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.84 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 22:49	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.19 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479526	08/14/20 11:54	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			362.6 g	1.0 g	479981	08/20/20 11:47	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			482298	09/12/20 11:04	SCB	TAL SL

Client Sample ID: CELL21-SQUARE61-S-2-3-200807

Lab Sample ID: 600-209488-3

Date Collected: 08/07/20 14:55

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.38 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 13:34	WS1	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	300979	08/12/20 11:44	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301390	08/17/20 20:53	RP	TAL HOU
Total/NA	Prep	3546			15.07 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 19:19	PP1	TAL PEN
Total/NA	Prep	5030B			9.92 g	10 mL	300717	08/08/20 15:03	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 12:52	WS1	TAL HOU
Total/NA	Prep	3546			10.01 g	1.0 mL	300806	08/10/20 15:59	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/14/20 00:45	RJV	TAL HOU
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 09:01	SMB	TAL HOU
Total/NA	Analysis	8081A		1			301106	08/13/20 14:37	JAL	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

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

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE61-S-2-3-200807

Lab Sample ID: 600-209488-3

Date Collected: 08/07/20 14:55

Matrix: Solid

Date Received: 08/08/20 10:05

Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 09:01	SMB	TAL HOU
Total/NA	Analysis	8082		1			301103	08/13/20 15:04	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 23:12	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 23:12	W1N	TAL HOU
Total/NA	Prep	6860			10.45 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 15:54	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.4 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 14:06	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5264 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 19:34	DAS	TAL SL
Total/NA	Prep	7471B			0.64 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 14:02	DCL	TAL HOU
Total/NA	Prep	9012B			0.515 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:45	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.500 g	50.0 mL	301712	08/20/20 12:06	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301753	08/20/20 16:00	AML	TAL HOU

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

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

Job ID: 600-209488-1

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-20-26	10-31-20
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
2540 C-1997		Solid	Total Dissolved Solids
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	C28-C36
8260B	5030B	Solid	1,3-Dichloropropene, Total
8270C LL	3546	Solid	1-Methylnaphthalene
8270C LL	3546	Solid	Atrazine
8270C LL	3546	Solid	Thiophene, tetrahydro-, 1,1-dioxide
9045D		Solid	pH

Laboratory: Eurofins TestAmerica, Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-21
Alaska (UST)	State	18-001	02-08-21
Arizona	State	AZ0713	12-20-20
Arkansas DEQ	State	19-047-0	06-01-21
California	State	2513	01-08-21
Connecticut	State	PH-0686	09-30-20
Florida	NELAP	E87667-57	07-01-21
Georgia	State	4025-011	01-09-21
Illinois	NELAP	2000172019-1	04-30-21
Iowa	State	IA#370	12-01-20
Kansas	NELAP	E-10166	04-30-21
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-21
Maine	State	2019011 (231)	03-03-21
Minnesota	NELAP	1788752	12-31-20
Nevada	State	CO000262020-1	08-31-20
New Hampshire	NELAP	205319	04-29-21
New Jersey	NELAP	190002	06-30-21
New York	NELAP	59923	04-01-21
North Carolina (WW/SW)	State	358	12-31-20
North Dakota	State	R-034	01-08-21
Oklahoma	State	2018-006	08-31-20
Oregon	NELAP	4025-011	01-08-21
Pennsylvania	NELAP	013	07-31-21
South Carolina	State	72002001	01-08-21
Texas	NELAP	T104704183-19-17	09-30-20
US Fish & Wildlife	US Federal Programs	058448	08-01-21
USDA	US Federal Programs	P330-18-00099	03-26-21
Utah	NELAP	QUAN5	06-30-13 *

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

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

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

Job ID: 600-209488-1

Laboratory: Eurofins TestAmerica, Denver (Continued)

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

Authority	Program	Identification Number	Expiration Date
Utah	NELAP	CO000262019-11	07-31-21
Virginia	NELAP	10490	06-14-21
Washington	State	C583-19	08-03-21
West Virginia DEP	State	354	11-30-20
Wisconsin	State	999615430	08-31-20
Wyoming (UST)	A2LA	2907.01	10-31-21

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-21
Kansas	NELAP	E-10253	10-31-20
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	09-30-20

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-209488-1

Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, 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	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-20

Eurofins TestAmerica, Houston

Client Information		Lab PM		Carrier Tracking No(s)		COC No	
Client Contact: J. Steinmann Client: SACCHIN KUDCHADKAR Company: AARCADIS U.S., Inc. Address: 630 Plaza Drive Suite 100 City: Highlands Ranch State: CO 80129-2377 Phone: 303-710-7537 (Tel) Email: Allison.Schaffer@arccadis.com Project Name: Chevron - Jal Land Farm Soils Site: Landfarm		Lab PM: Kuchadkar, Sachin G E-Mail: Sachin.Kudchadkar@Eurofins.com		600-78203-21039.1 Page: 1 of 1 Job #:		600-78203-21039.1 Page: 1 of 1 Job #:	
Analysis Requested Due Date Requested: <u>8/1/20</u> TAT Requested (days): <u>Std</u> PO #: <u>60012538</u> WO #: <u>SSOW#</u>				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 Cell 20 - Square 154-S-2-3-200807 Cell 21 - Square 21-S-2-3-200807 Cell 21 - Square 61-S-2-3-200807 Temp blank				Special Instructions/Note: 600-209488 Chain of Custody			
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			
Empty Kit Relinquished by:				Special Instructions/QC Requirements:			
Relinquished by: <u>John</u>				Method of Shipment:			
Relinquished by: <u>Aradis</u>				Received by: <u>John</u>			
Relinquished by:				Forwarded by:			
Relinquished by:				Received by:			
Custody Seal Intact Yes ☒ No ☐				Cooler Temperature(s) °C and Other Remarks:			

Loc: 600

209488

Environment Testing
TestAmerica

Eurofins TestAmerica Houston

Sample Receipt Checklist

28 AUG 6 10:05

JOB NUMBER: _____

Date/Time Received: _____

CLIENT: _____

UNPACKED BY: _____

CARRIER/DRIVER: _____

Custody Seal Present: ☒ YES ☐ NO

Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
7602	Y / N	Y / N	2.7	680	+0.1	2.8
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				8/8/20
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒ YES ☐ NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED:

☐ NO☐ YESBase samples are >pH 12: ☐ YES ☐ NO

Acid preserved are <pH 2:

☐ YES ☐ NOTX1005 samples frozen upon receipt: ☐ YES

DATE & TIME PUT IN FREEZER: _____

pH paper Lot # _____

VOA headspace acceptable (5-6mm): ☐ YES ☐ NO ☒ NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

☒ YES☐ NO

COMMENTS:

8/8/20

Eurofins TestAmerica, Houston

6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444

Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record



eurofins

Environment Testing
America

[illegible]

Ver: 01/16/2019

Eurofins TestAmerica, Houston
5310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

 eurofins

Environment Testing
America

[illegible]

Ver: 01/16/2019

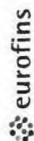
Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)				Lab PM: Kudchadkar, Sachin G Carrier Tracking No(s): 600-45925.1	
Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc.				State of Origin: Texas Page: Page 1 of 1	
Address: 3355 McEmore Drive, City: Pensacola State, Zip: FL, 32514 Phone: 850-474-1001(Tel) 850-478-2671(Fax) Email:				Job #: 600-209488-1 Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:	
Due Date Requested: 8/26/2020 TAT Requested (days):				Analysis Requested	
PO #: 60012538 WO #: SSOW#:				8270D_AgChem/3546 (MOD) Copy Analytes	
Project Name: Chevron - Jal Land Farm Soils Site:				Field Filtered Sample (Yes or No)	
Sample Identification - Client ID (Lab ID)				Perform MS/MSD (Yes or No)	
Sample Date				Total Number of Containers	
Sample Time				Special Instructions/Note:	
Sample Type (C=Comp, G=grab)				1	
Matrix (W=water, S=solid, O=oil, A=air)				1	
CELL20-SQUARE154-S-2-3-200807 (600-209488-1)				1	
CELL21-SQUARE21-S-2-3-200807 (600-209488-2)				1	
CELL22-SQUARE22-S-2-3-200807 (600-209488-3)				1	
CELL23-SQUARE23-S-2-3-200807 (600-209488-4)				1	
CELL24-SQUARE24-S-2-3-200807 (600-209488-5)				1	
CELL25-SQUARE25-S-2-3-200807 (600-209488-6)				1	
CELL26-SQUARE26-S-2-3-200807 (600-209488-7)				1	
CELL27-SQUARE27-S-2-3-200807 (600-209488-8)				1	
CELL28-SQUARE28-S-2-3-200807 (600-209488-9)				1	
CELL29-SQUARE29-S-2-3-200807 (600-209488-10)				1	
CELL30-SQUARE30-S-2-3-200807 (600-209488-11)				1	
CELL31-SQUARE31-S-2-3-200807 (600-209488-12)				1	
CELL32-SQUARE32-S-2-3-200807 (600-209488-13)				1	
CELL33-SQUARE33-S-2-3-200807 (600-209488-14)				1	
CELL34-SQUARE34-S-2-3-200807 (600-209488-15)				1	
CELL35-SQUARE35-S-2-3-200807 (600-209488-16)				1	
CELL36-SQUARE36-S-2-3-200807 (600-209488-17)				1	
CELL37-SQUARE37-S-2-3-200807 (600-209488-18)				1	
CELL38-SQUARE38-S-2-3-200807 (600-209488-19)				1	
CELL39-SQUARE39-S-2-3-200807 (600-209488-20)				1	
CELL40-SQUARE40-S-2-3-200807 (600-209488-21)				1	
CELL41-SQUARE41-S-2-3-200807 (600-209488-22)				1	
CELL42-SQUARE42-S-2-3-200807 (600-209488-23)				1	
CELL43-SQUARE43-S-2-3-200807 (600-209488-24)				1	
CELL44-SQUARE44-S-2-3-200807 (600-209488-25)				1	
CELL45-SQUARE45-S-2-3-200807 (600-209488-26)				1	
CELL46-SQUARE46-S-2-3-200807 (600-209488-27)				1	
CELL47-SQUARE47-S-2-3-200807 (600-209488-28)				1	
CELL48-SQUARE48-S-2-3-200807 (600-209488-29)				1	
CELL49-SQUARE49-S-2-3-200807 (600-209488-30)				1	
CELL50-SQUARE50-S-2-3-200807 (600-209488-31)				1	
CELL51-SQUARE51-S-2-3-200807 (600-209488-32)				1	
CELL52-SQUARE52-S-2-3-200807 (600-209488-33)				1	
CELL53-SQUARE53-S-2-3-200807 (600-209488-34)				1	
CELL54-SQUARE54-S-2-3-200807 (600-209488-35)				1	
CELL55-SQUARE55-S-2-3-200807 (600-209488-36)				1	
CELL56-SQUARE56-S-2-3-200807 (600-209488-37)				1	
CELL57-SQUARE57-S-2-3-200807 (600-209488-38)				1	
CELL58-SQUARE58-S-2-3-200807 (600-209488-39)				1	
CELL59-SQUARE59-S-2-3-200807 (600-209488-40)				1	
CELL60-SQUARE60-S-2-3-200807 (600-209488-41)					

Chain of Custody Record



Environment Testing
America

[illegible]

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-209488-1

Login Number: 209488

List Source: Eurofins TestAmerica, Houston

List Number: 1

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.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-209488-1

Login Number: 209488

List Number: 2

Creator: Schade, Daniel B

List Source: Eurofins TestAmerica, Denver

List Creation: 08/11/20 02:31 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.	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").	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: 600-209488-1

Login Number: 209488

List Number: 3

Creator: Whitley, Adrian

List Source: Eurofins TestAmerica, Pensacola

List Creation: 08/12/20 05:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1075430
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.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	6.5°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: 600-209488-1

Login Number: 209488

List Number: 4

Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/12/20 05:12 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	



Arcadis U.S., Inc.

630 Plaza Drive

Suite 100

Highlands Ranch, Colorado 80129

Tel 720 344 3500

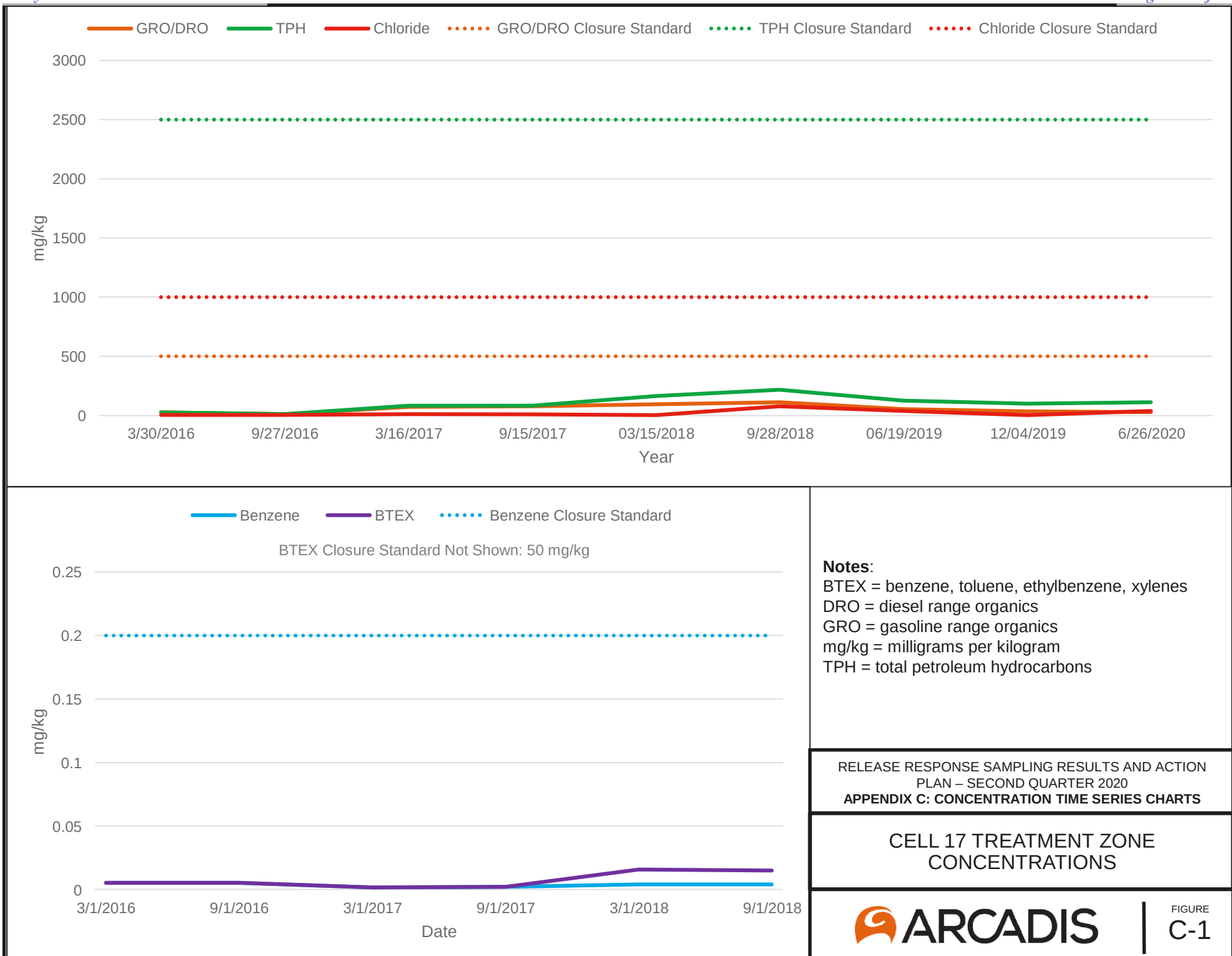
Fax 720 344 3535

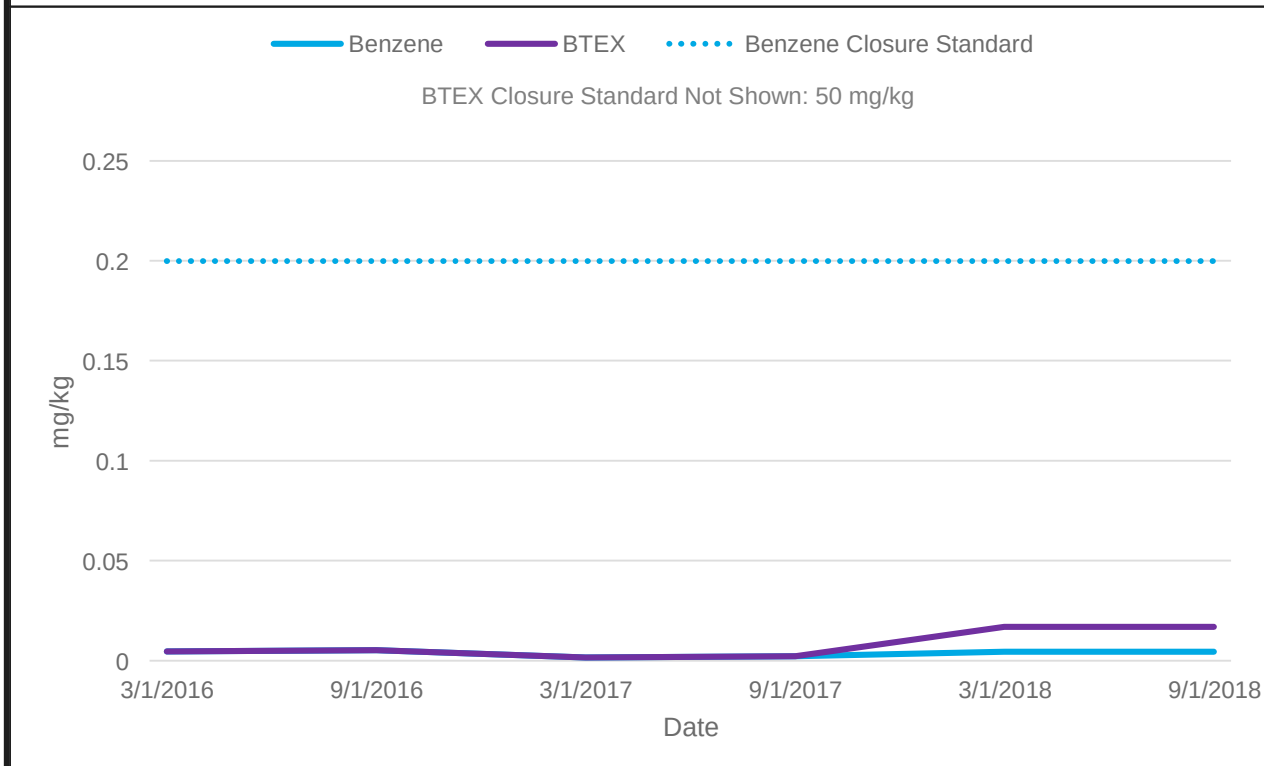
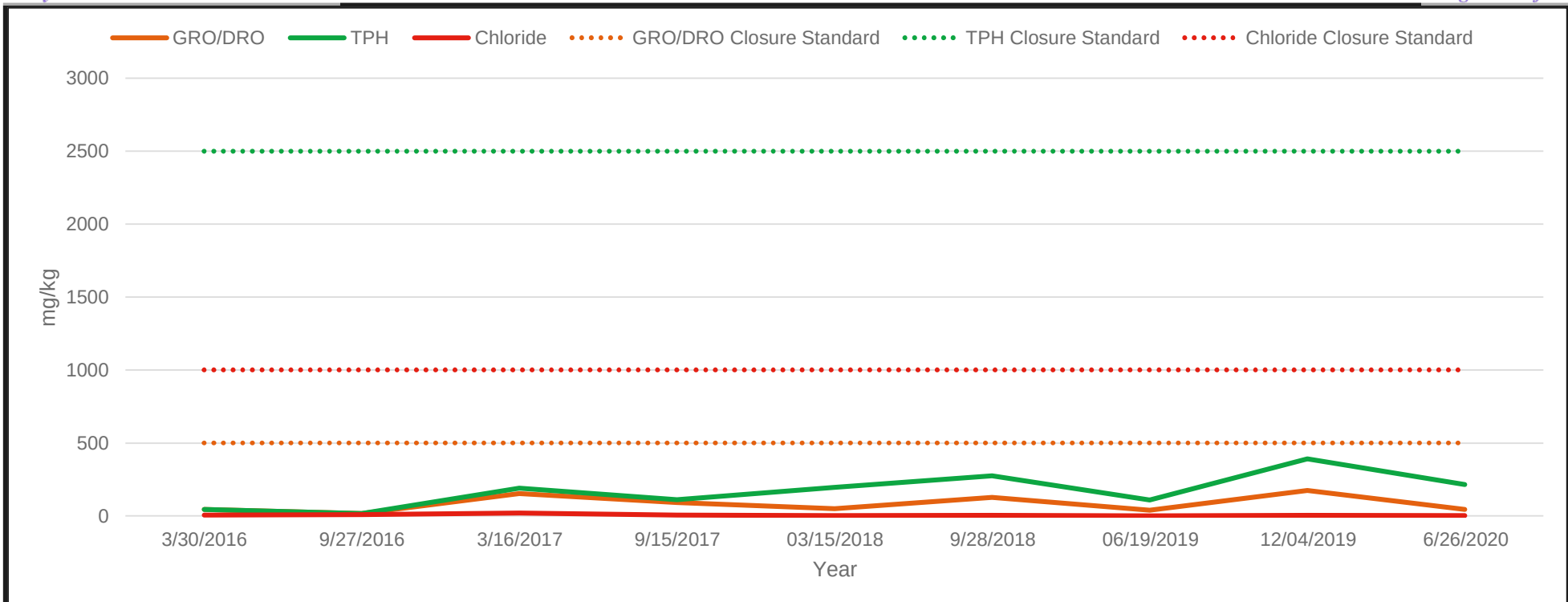
www.arcadis.com

APPENDIX C

Concentration Time Series Charts





**Notes:**

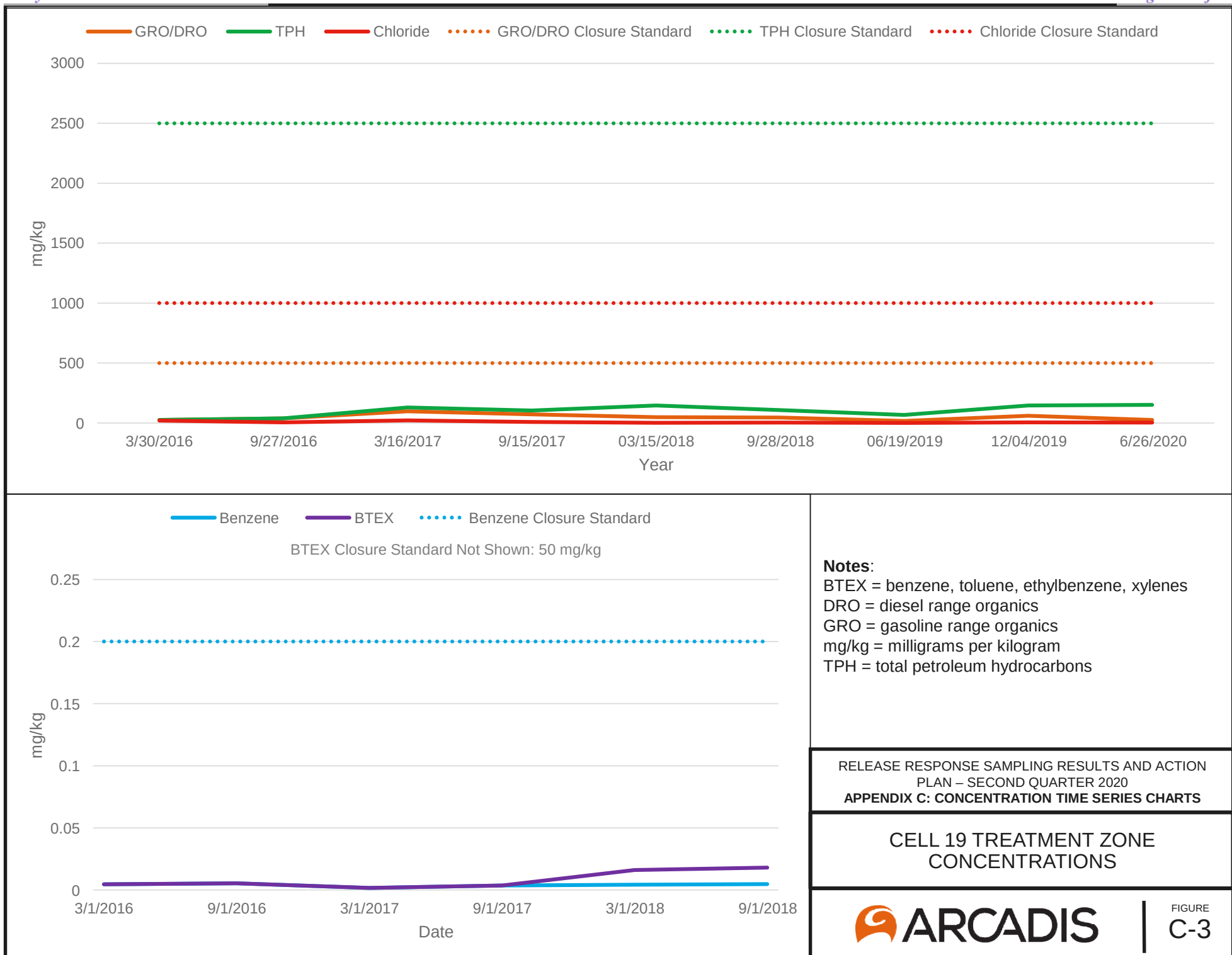
BTEX = benzene, toluene, ethylbenzene, xylenes
DRO = diesel range organics
GRO = gasoline range organics
mg/kg = milligrams per kilogram
TPH = total petroleum hydrocarbons

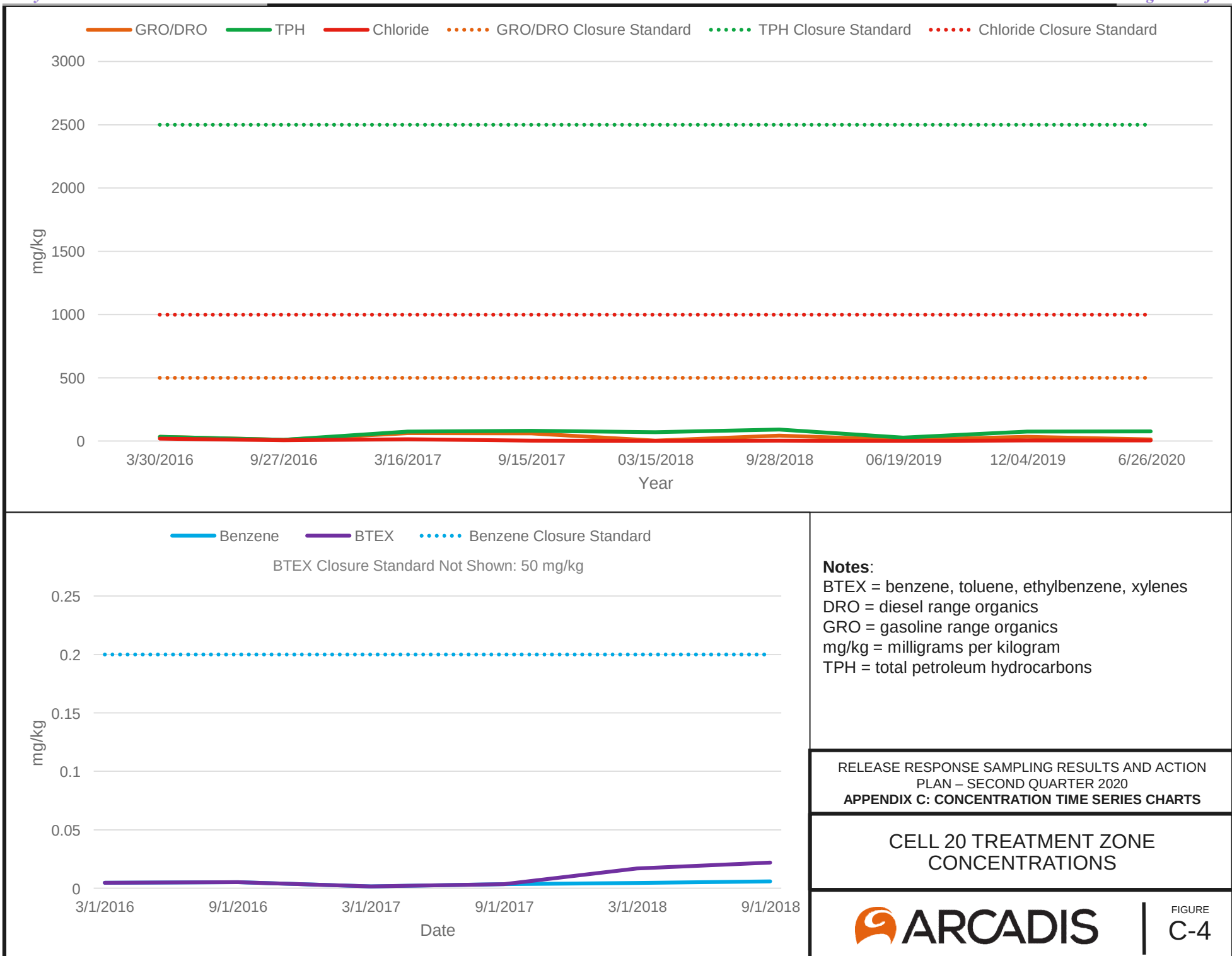
RELEASE RESPONSE SAMPLING RESULTS AND ACTION
PLAN – SECOND QUARTER 2020
APPENDIX C: CONCENTRATION TIME SERIES CHARTS

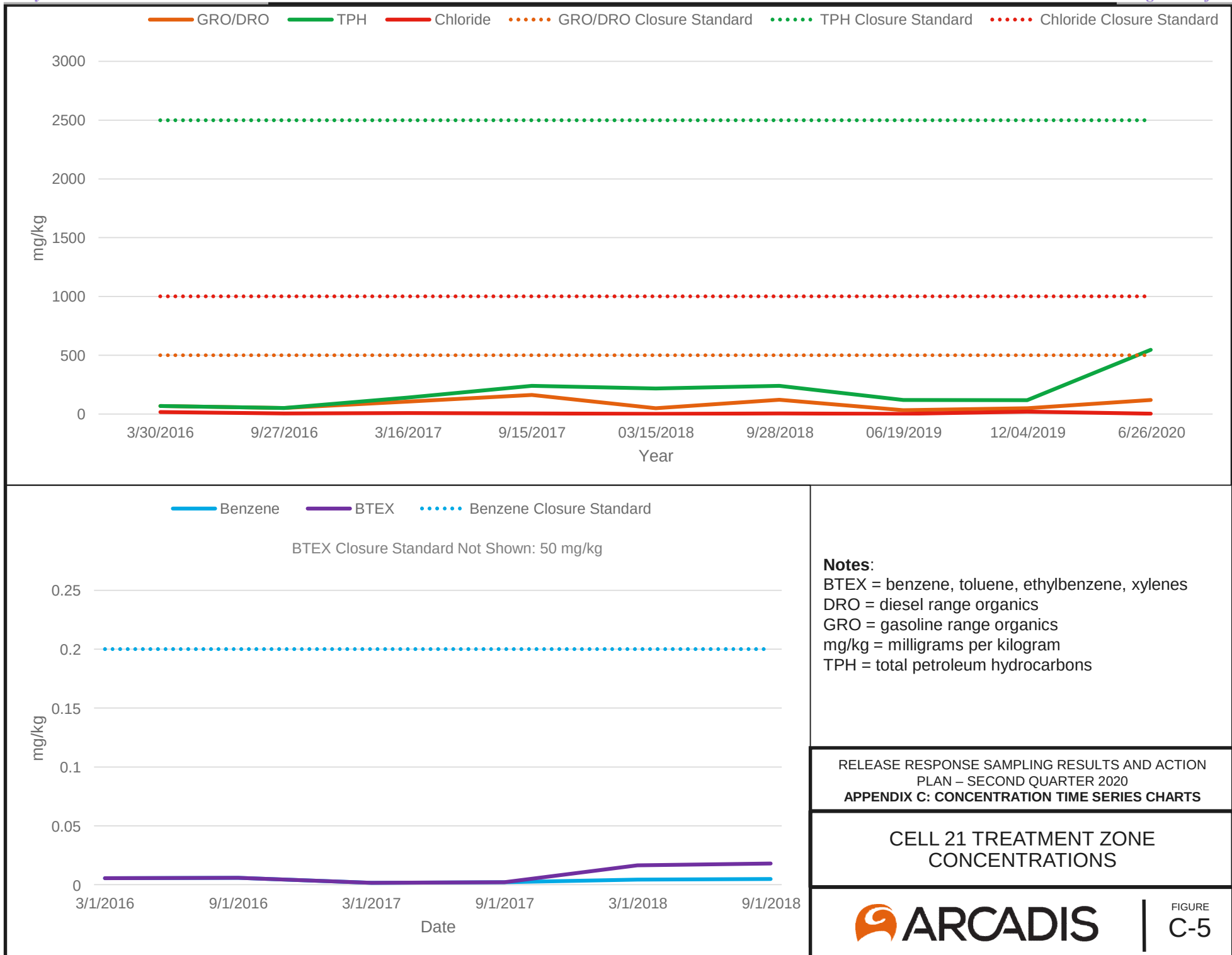
**CELL 18 TREATMENT ZONE
CONCENTRATIONS**

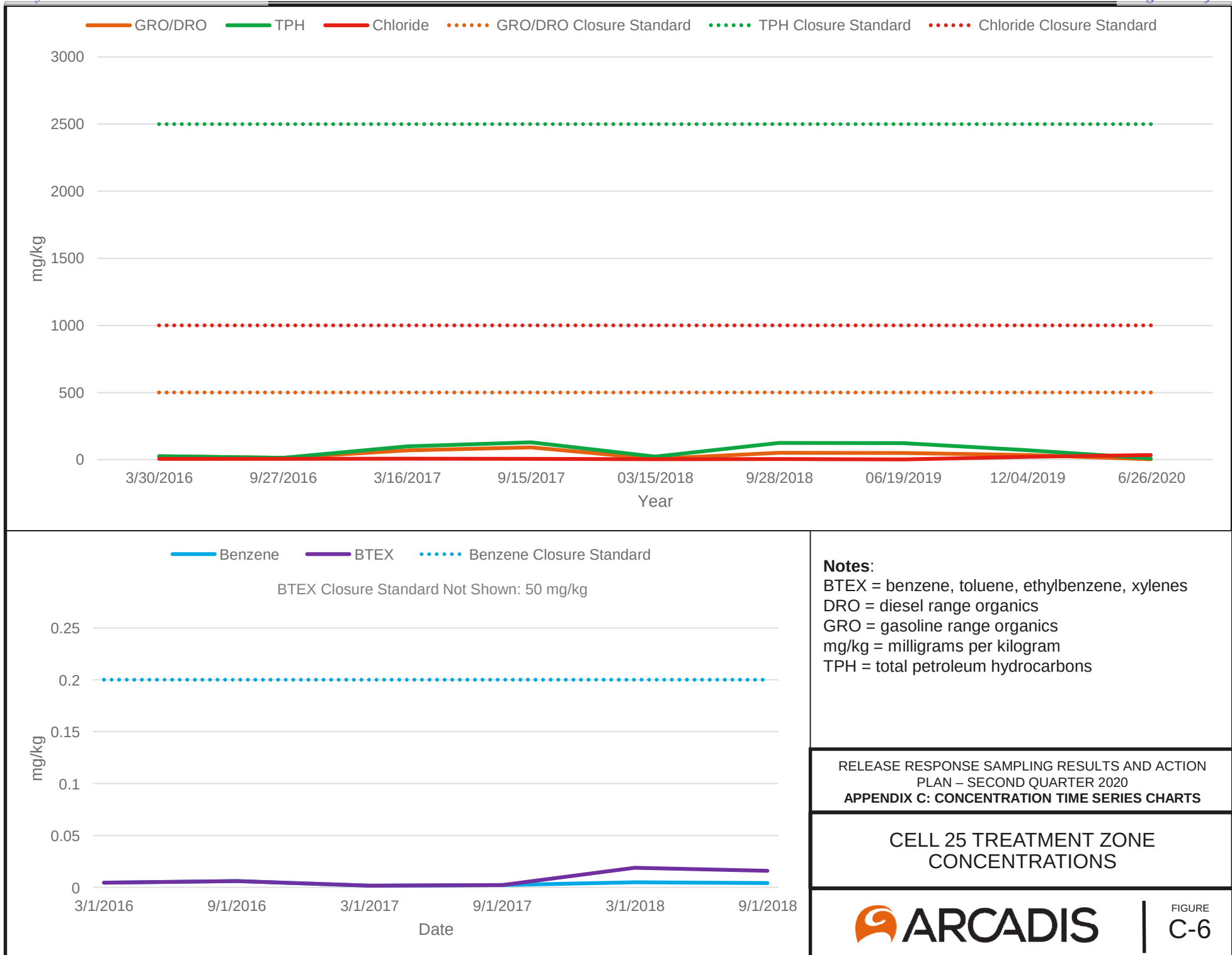


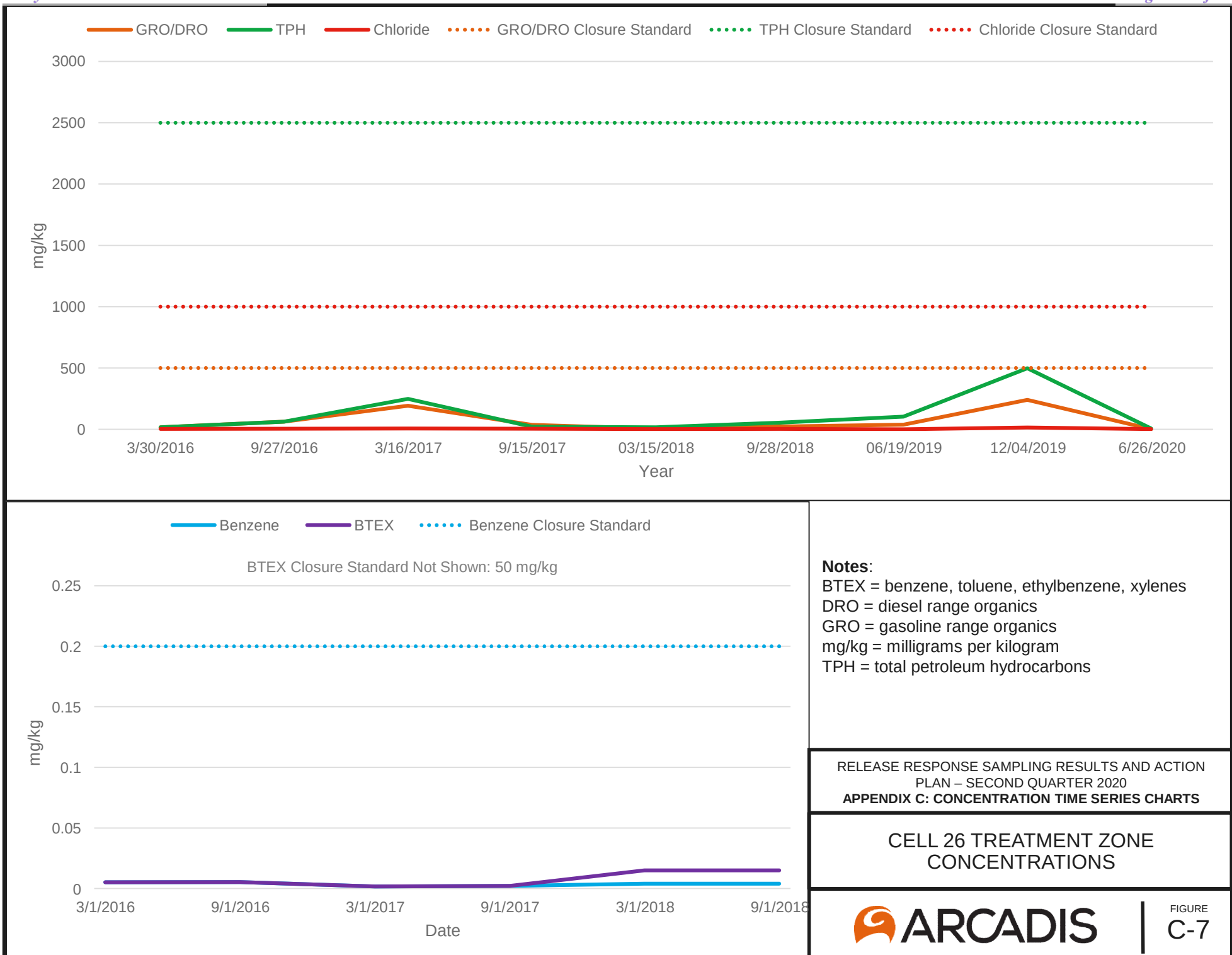
FIGURE
C-2













Arcadis U.S., Inc.

630 Plaza Drive

Suite 100

Highlands Ranch, Colorado 80129

Tel 720 344 3500

Fax 720 344 3535

www.arcadis.com

Jones, Brad A., EMNRD

From: Jones, Brad A., EMNRD
Sent: Friday, November 19, 2021 10:51 AM
To: amarti@chevron.com
Cc: Rice, Steve
Subject: NM2-012 Jal Landfarm vadose zone release response action plan
Attachments: 2021 1118 NM2-012 Vadose Zone Release Response Action Plan signed approval.pdf

Mr. Martinez,

Please see the attached approval of the vadose zone release response action plan for the Jal Landfarm, permit NM2-012. If you have any questions regarding this matter, please do not hesitate to contact me.

Sincerely,

Brad A. Jones

Brad A. Jones • Environmental Scientist Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
1220 S. Saint Francis Drive | Santa Fe, New Mexico 87505
(505) 469-7486 | brad.a.jones@state.nm.us
www.emnrd.nm.gov

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Division Director
Oil Conservation Division



November 18, 2021

Armando Martinez,
Chevron North America Exploration and Production Company
354 State Highway 38
Questa, New Mexico 87556-04698

**RE: Approval of the Release Response Action Plan
Jal Landfarm, Permit NM2-012
Location: W/2 of Section 17, Township 24 South, Range 36 East, NMPM
Lea County, New Mexico**

Dear Mr. Martinez:

The Oil Conservation Division (OCD) has completed its review of Chevron Environmental Management Company's (CEMC) vadose zone release response action plan, dated July 19, 2021. OCD hereby grants CEMC approval of the July 19, 2021 vadose zone release response action plan, with the following recognitions and conditions:

1. CEMC shall comply with all applicable requirements of the Oil and Gas Act (Chapter 70, Article 2 NMSA 1978), the existing permit NM2-010, the transitional provisions of 19.15.36.20 NMAC, and all conditions specified in this approval;
2. CEMC shall comply with the requirements of 19.15.29 NMAC;
3. CEMC shall comply with OCD's April 21, 2021 policy on how to address a release to the vadose zone at a Part 36 landfarm pursuant to Part 29, available at the flowing hyperlink: <https://www.emnrd.nm.gov/ocd/wp-content/uploads/sites/6/2021-0421-How-to-address-a-release-to-the-vadose-zone-at-a-Part-36-landfarm-pursuant-to-Part-29.pdf>.
4. CEMC shall demonstrate compliance of the requirements of 19.15.29 NMAC (Part 29) by providing a copy of the delineation and remediation work performed to address the release and OCD's approval of the closure of the release in each landfarm cell to update the administrative record and to document potential new background concentrations only applicable to the areas assessed for the release; and

Chevron North America Exploration and Production Company
Permit NM2-012
November 18, 2021
Page 2 of 2

5. CEMC shall obtain written approval from OCD prior to implementing any changes to the July 19, 2021 vadose zone release response action plan.

Please be advised that approval of this request does not relieve CEMC of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve CEMC of its responsibility to comply with any other applicable governmental authority's rules and regulations.

Please ensure in future release response sampling events that the four randomly selected, independent samples required of 19.15.36.15.E(5) NMAC are randomly located around the sample location(s) of the initial detection within each landfarm cell that prompted the release response sampling, instead of randomly taking the four samples across the 4-5 acre landfarm cell. CEMC should be assessing the individual detected releases from the routine vadose zone monitoring during the release response sampling required of 19.15.36.15.E(5) NMAC.

If there are any questions regarding this matter, please do not hesitate to email me at brad.a.jones@state.nm.us.

Respectfully,



Brad A. Jones
Environmental Specialist

cc: Steve Rice Arcadis U.S., Inc

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 109314

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 109314
	Action Type: [C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

CONDITIONS

Created By	Condition	Condition Date
bjones	OCD emailed the review to Armando Martinez (Chevron) and Steve Rice (Arcadis) on November 19, 2021. Please see the OCD's Response attached to the bottom of the report for the conditions of approval.	5/25/2022