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Date: November 13, 2024
Subject: Chevron Jal Landfarm
Site Characterization & Soil Remediation Work Plan
Centralized Surface Waste Management Facility
NMOCD Incident No. NAPP2113741693
Lea County, New Mexico

To Whom It May Concern,

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

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 On February 14, 2007, Rule 711 was repealed and replaced by 19.15.36 New Mexico Administrative Code (NMAC; February 14, 2007, as amended through June 30, 2016), commonly referred to as Part 36.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

Under Part 36, semi-annual vadose zone monitoring is performed at the Site to determine whether a release has occurred in the vadose zone. Analytical results of vadose zone monitoring indicated minor impacts of total petroleum hydrocarbons (TPH) and chloride to the vadose zone. In response, CEMC submitted an Initial C-141 (Release Notification Form) to the NMOCD on April 21, 2021 to notify the division of the release. The NMOCD approved the Release Notification Form on May 18, 2021 and assigned the Site incident number NAPP2113741693 (NMOCD 2021). No soil has been disposed of at the Site since 2007; therefore, the release to the vadose zone will be addressed under provision 19.15.29.12 NMAC.

The purpose of this Work Plan is to provide a site assessment and characterization, as required by provision 19.15.29.11 NMAC, and describe the remediation plan to address impacts.

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Site Description and Background

The Site is located approximately 4.5 miles northwest of Jal, New Mexico (western half of Section 17, Township 24 south, Range 36 east) north of Cooper Cemetery Road (Figure 1). The Site is located within the Tertiary-age Ogallala Formation, which comprises fluvial sand, silt, clay, and localized gravel. A caliche layer, approximately 9 to 21 feet thick, forms a hard, erosion-resistant pedogenic calcrete approximately 4 feet below ground surface (bgs). Caliche has been observed as shallow as 1½ to 3 feet bgs at the Site. The Ogallala Formation is underlain by the Chinle Formation, which comprises clay, silty clay, shale, and sandstone. Depth to water beneath the landfarm is expected to range from 148 to 174 feet bgs, and regional groundwater flows from northwest to southeast (Stantec Consulting Services Inc. 2017).

The Site was originally approved for 56 landfarm cells (cells) to be constructed over approximately 320 acres; however, only 26 cells were constructed (Cells 1 through 26). Each cell is approximately 300 by 625 feet (approximately 4.3 acres). On July 29, 2003, the NMOCD approved discontinuation of maintenance for Cells 1 through 16 because the soil was treated to applicable standards required under permit NM-02-0012 and no additional soil lifts were planned for these cells (NMOCD 2003b). On February 19, 2008, the NMOCD approved the discontinuation of maintenance and closure for Cells 22, 23, and 24 because the treatment zone closure performance standards specified in provision 19.15.36.15(F) NMAC were met (NMOCD 2008). Active maintenance has continued at Cells 17, 18, 19, 20, 21, 25, and 26; however, no soil has been added to these cells since 2007.

In December 2020, the NMOCD approved a minor permit modification request to discontinue tilling operations at Cells 17, 18, 19, 20, 21, 25, and 26 (NMOCD 2022). Current site activities include monthly site inspections and semi-annual treatment zone and vadose zone monitoring. The treatment zone is defined as surface soils (0 to 12 inches bgs) within a cell that were originally impacted by petroleum hydrocarbons and placed in the landfarm for treatment via bioremediation. The vadose zone is defined as native unimpacted subsurface soils that underlie treatment zone soils.

Previous Site Assessment Activities

In accordance with Part 36, semi-annual vadose zone monitoring is performed at the Site to determine whether a release has occurred in the vadose zone. During each event, four randomly selected discrete soil samples are collected from the vadose zone of each active cell (Cells 17, 18, 19, 20, 21, 25, and 26). Samples are collected at a depth of approximately 3 to 4 feet below native ground surface and analyzed for TPH as diesel-range organics (DRO); gasoline-range organics (GRO); oil-range organics (ORO); benzene, toluene, ethylbenzene, and xylenes (BTEX); and chloride.

As specified in provision 19.15.36.15(E) NMAC, vadose zone analytical results are compared to the higher of the practical quantitation limit (PQL) or background soil concentrations to determine whether a release has occurred. If concentrations exceed the PQL or background soil concentrations, then release response sampling is performed, which involves recollecting a minimum of four randomly selected, independent samples from potentially impacted cells and analyzing them for TPH, BTEX, chloride, and constituents listed in Subsections A and B of provision 20.6.2.3103 NMAC.

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Vadose zone analytical results from 2018 to July 2024 are presented in Tables 1 through 3. The analytical results indicate an unauthorized release to the vadose zone, as defined by provision 19.15.36.15.E(5) NMAC. Therefore, CEMC is addressing the release under provision 19.15.29.12 NMAC.

Site Characterization

A desktop review of the New Mexico Office of the State Engineers (NMOSE) database indicated a water well (CP 00970 POD1) is located approximately 0.75-mile northeast of the Site, with a reported depth to groundwater of 180 feet bgs.

The following site characteristics were determined in accordance with NMAC 19.15.29:

- Shallowest depth to groundwater beneath the area affected by the release: Between 100 and 500 feet;
- Method used to determine the depth to groundwater: NMOSE database search;
- Distance to continuously flowing watercourse or any other significant watercourse: Greater than 5 miles;
- Distance to lakebed, sinkhole, or playa lake: Between 500 and 1,000 feet;
- Distance to occupied permanent residence, school, hospital, institution, or church: Between 1 and 5 miles;
- Distance to spring or private domestic well used by fewer than five households for domestic or stock watering purposes: Between 1 and 5 miles;
- Distance to other fresh water well or spring: Between 1 and 5 miles;
- Distance to incorporated municipal boundaries or a defined municipal fresh water well field: Greater than 5 miles;
- Distance to wetland: Between 500 and 1,000 feet;
- Distance to subsurface mine: Greater than 5 miles;
- Distance to (non-karst) unstable area: Greater than 5 miles;
- Categorization of the risk of this well/site being in a karst geology: Low;
- Distance to a 100-year floodplain: Greater than 5 miles; and
- Did the release impact areas not on an exploration, development, production, or storage site? No.

NMAC Regulatory Criteria

The 19.15.29 NMAC closure criteria for soils impacted by a release (Part 29 closure criteria) are determined based on the depth to groundwater and the characteristics of the Site identified previously. Given that the volume of the release is unknown, the most stringent Part 29 closure criteria will be used. According to Table I of provision 19.15.29.12 NMAC, the following Part 29 closure criteria apply to the Site for remediation and reclamation activities of the first 4 feet of native soil:

Depth to Groundwater	Constituent	Part 29 Closure Criteria (mg/kg)	Restoration Criteria (mg/kg)*
<50 feet	Chloride	600	600
	TPH (GRO+DRO+MRO)	100	100
	BTEX	50	50

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Depth to Groundwater	Constituent	Part 29 Closure Criteria (mg/kg)	Restoration Criteria (mg/kg)*
	Benzene	10	10

Notes:
*Revised screening limit and restoration criteria within the first 4 feet bgs per 19.15.29 NMAC, effective August 14, 2018.
mg/kg = milligrams per kilogram
MRO = motor oil range organics

2024 Site Assessment Activities

In accordance with provision 19.15.29.11 NMAC, vadose zone soils in active cells 17, 18, 19, 20, 21, 25, and 26 were assessed for potential impacts from the treatment zone. Vadose zone soil analytical results collected from 2018 to July 2024 were compared to the Part 29 closure criteria. The results are presented in Tables 1 through 3 and on Figures 2 through 9.

TPH and/or chloride concentrations exceeded the Part 29 closure criteria in the locations that follow. These locations were re-sampled in October 2024 at two depth intervals (3 to 4 feet below native ground surface and 4 to 5 feet below native ground surface) to characterize current impacts vertically and horizontally. The sampling locations are shown on Figures 2, 3, 4, 5, 7, and 8.

- Cell 17. TPH: Squares 118, 200, 204; Chloride: Squares 5, 22, 23, 26, 64, 66;
- Cell 18. TPH: Squares 131 and 179;
- Cell 19. TPH: Square 119;
- Cell 21. TPH: Square 23; and
- Cell 25. TPH: Square 3.

In addition, select locations from active cells 17, 18, 19, 20, 21, 25, and 26 were sampled in October 2024 for TPH, BTEX, and chloride to further characterize the extent of potential impacts in the vadose zone of each cell. Samples were collected 3 to 4 feet below native ground surface. The sampling locations are listed below and are shown on Figures 2, 3, 4, 5, and 7.

- Cell 17. Squares 10, 41, 167, 208;
- Cell 18. Squares 85, 89, 188;
- Cell 19. Square 87; and
- Cell 21. Squares 150, 190.

Vadose Zone Sampling Methods

Prior to sample collection, an approximate 5- by 5-foot area of treatment zone soil was removed using a backhoe to minimize the potential for cross-contamination. The backhoe bucket was then decontaminated using an Alconox® solution and a pressure washer with potable rinse water. After decontamination was complete, the backhoe bucket was used to remove 3 to 4 feet of vadose zone soil from the sampling location. Once the desired sampling depth was achieved, the backhoe was used to collect representative soil from the vadose zone from which the soil sample was collected. Soil samples were placed into 4-ounce laboratory-supplied sample jars, which were labeled and shipped on ice to Eurofins Environment Testing laboratory in Stafford, Texas for analysis.

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

Soil samples were analyzed for one or more of the following constituents:

- TPH as DRO, GRO, and ORO by United States Environmental Protection Agency (USEPA) Method 8015D; TPH is represented as the sum of the DRO, GRO, and ORO fractions;
- BTEX by USEPA Method 8260C; and
- Chloride by USEPA Method 300.0.

Vadose Zone Sampling Results

Analytical results from the October 2024 soil sampling event are presented in Table 4.

The locations that follow had chloride or TPH concentrations that exceeded the Part 29 closure criteria (see Figures 2 and 7). At the other locations, TPH, BTEX, and/or chloride concentrations were below the Part 29 closure criteria.

- Cell 17. Chloride. Square 22: 3 to 4 feet below native ground surface and 4 to 5 feet below native ground surface;
- Cell 17. Chloride. Square 5: 3 to 4 feet below native ground surface;
- Cell 17. Chloride. Square 66: 3 to 4 feet below native ground surface; and
- Cell 21. TPH. Square 150: 3 to 4 feet below native ground surface.

Proposed Remediation Work Plan

Vadose zone analytical data collected during site assessment activities confirm that soils within the vadose zone of cells 17, 18, 19, 20, 21, 25, and 26 have been delineated horizontally and vertically for TPH, BTEX, and chloride based on the Part 29 closure criteria. Vadose zone soil concentrations in cells 18, 19, 20, 21 (BTEX and chloride), 25, and 26 are reported below the Part 29 closure criteria; therefore, no further action is required.

Select locations within cells 17 and 21 exceeded the Part 29 closure criteria for chloride or TPH and will be remediated. Impacted soil will be excavated to a maximum of 5 feet below native ground surface followed by confirmation soil sampling. Field screening of soils for chloride and TPH will be performed to guide excavation activities and confirmation sampling. The excavation areas will be backfilled with clean material similar to that of the surrounding area and all excavated soil will be transported offsite to a Chevron approved Treatment, Storage and Disposal (TSD) facility for disposal. The proposed excavation boundaries are presented on Figure 10.

An outline of the soil remediation activities are as follows.

- Prior to mobilizing equipment to the Site, a New Mexico 811 utility notification will be made at least 48 hours prior to mobilization.
- Ground Penetrating Radar Systems, LLC will be conducted to locate subsurface utilities prior to the start any digging.
- During excavation activities, soils will be field screened for chloride utilizing Hach chloride test strips and for volatile organic compounds utilizing a photoionization detector.

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- Five-point composite confirmation soil samples will be collected from the excavation floor and sidewalls at 200-square-foot intervals for laboratory analysis. The confirmation samples will be collected in clean, laboratory-supplied sample containers, labeled, placed on ice, and delivered to Eurofins Environment Testing laboratory in Stafford, Texas under chain-of-custody protocol. Soil samples will be analyzed for the following constituents:
  - TPH as DRO, GRO, and ORO by USEPA Method 8015D;
  - BTEX by USEPA Method 8260C; and
  - Chloride by USEPA Method 300.0.
- It is anticipated that approximately 65 cubic yards of vadose zone soil will be excavated to a maximum depth of 5 feet below native ground surface.
- Once the excavated soil is removed from the vadose zone, the excavation will be backfilled with clean material similar to that of the surrounding native area.
- The excavated soil will be contained inside a lined roll off box and transported offsite to a Chevron approved TSD facility for disposal.

Reporting

Within 90 days of completing the remediation activities, CEMC will submit a closure request report to the NMOCD. The report will summarize remediation activities completed at the Site and will include an excavation boundaries map, confirmation sampling location map, confirmation soil analytical results, and photographic documentation.

Work Plan

CEMC is prepared to initiate the scope of work within 90 days of receiving written approval from the NMOCD. If you have any questions or comments with regard to this Work Plan, please contact Armando Martinez (CEMC) at (505) 690-5408 or amarti@chevron.com or Ryan Nanny (Arcadis) (806) 543-1945 or ryan.nanny@arcadis.com. Your timely response to this correspondence is appreciated.

Sincerely,
Arcadis U.S., Inc.

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References:

Arcadis. 2020. Minor Permit Modification Request. Jal Landfarm NM-02-0012, Centralized Surface Water Management Facility. Lea County, New Mexico. September 3.

NMOCD. 2021. Form C-141. Release Notification. Approved May 18.

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NMOCD 2003a. Letter from R. Anderson (NMOCD) to R. Bailey (Chevron Texaco) re: Texaco E&P Inc. OCD Rule 711 Permit Approval NM-02-0012. March 26.

NMOCD. 2003b. Letter from M. Kieling (NMOCD) to R. Bailey (Chevron Texaco) re: Approval of Discontinued Maintenance Status and Application of Additional Lifts, Texaco E&P Inc., Permit NM-02-0012. July 29.

NMOCD. 2004. Letter from R. Anderson (NMOCD) to R. Bailey (Chevron) re: Chevon USA Inc. Surface Water Management Facility Permits NM-02-0012 and NM-02-0013. April 1.

NMOCD. 2008. Letter from B. Jones (NMOCD) to R. Bailey (Chevron) re: 2017 Sampling Results of Chevron Centralized Landfarm Centralized Surface Waste Management Facility Permit NM-1-0012. February 19.

NMOCD. 2022. Permit Minor Modification Request Approval. Jal Landfarm, Permit NM2-012, Lea County, New Mexico. August 31.

Stantec Consulting Services Inc. 2017. Draft Landfarm Operations, Sampling and Analysis Plan. Chevron Jal Landfarm Surface Waste Management Facility Number NM-02-0012. September 27.

Enclosures:

Table 1: 2018 – 2024 Vadose Zone Analytical Results: TPH
Table 2: 2018 – 2024 Vadose Zone Analytical Results: BTEX
Table 3: 2018 – 2024 Vadose Zone Analytical Results: Chloride
Table 4: October 2024 Vadose Zone Analytical Results
Figure 1: Site Location Map
Figure 2: Cell 17 Chloride Concentrations
Figure 3: Cell 17 TPH Concentrations
Figure 4: Cell 18 TPH Concentrations
Figure 5: Cell 19 TPH Concentrations
Figure 6: Cell 20 Chloride, BTEX, and TPH Concentrations
Figure 7: Cell 21 TPH Concentrations
Figure 8: Cell 25 TPH Concentrations
Figure 9: Cell 26 Chloride, BTEX, and TPH Concentrations
Figure 10: Proposed Excavation Boundaries

Tables

Table 1
2018 – 2024 Vadose Zone Analytical Results: TPH
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			Constituent	DRO		GRO		ORO		TPH[a]	
			Units	mg/kg		mg/kg		mg/kg		mg/kg	
			Part 29 Closure Criteria	--		--		--		100	
Landfarm Cell	Zone	Sample ID	Sampling Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	C17-Sq110-S-3-4-180313	3/13/2018	4.9500	UB	0.09	U	4.95	U	5.0	U
Cell 17	Vadose	C17-Sq118-S-3-4-180313	3/13/2018	4.9500	UB	0.09	U	4.95	U	5.0	U
Cell 17	Vadose	C17-Sq201-S-3-4-180313	3/13/2018	4.9900	UB	0.10	U	4.99	U	5.0	U
Cell 17	Vadose	C17-Sq45-S-3-4-180313	3/13/2018	4.980	UB	0.10	--	4.98	--	5.1	--
Cell 17	Vadose	Cell17-Square103-S-3-4-180927	9/27/2018	4.9300	U	0.10	U	4.93	U	4.9	U
Cell 17	Vadose	Cell17-Square106-S-3-4-180927	9/27/2018	4.9000	U	0.0942	U	4.90	U	4.9	U
Cell 17	Vadose	Cell17-Square66-S-3-4-180927	9/27/2018	4.9200	U	0.10	U	4.92	U	4.9	U
Cell 17	Vadose	Cell17-Square99-S-3-4-180927	9/27/2018	4.9000	U	0.1	U	4.90	U	4.9	U
Cell 17	Vadose	C17-Square 167-S-2-3	3/26/2019	1.99	U	1.30	U	1.99	U	1.99	--
Cell 17	Vadose	Cell 17-square131-S-2-3-190618	6/18/2019	1.95	U	1.19	U	1.95	U	1.95	--
Cell 17	Vadose	Cell 17-Square 49-S-2-3-190903	9/3/2019	3.46	J	1.43	U	1.99	U	3.46	--
Cell 17	Vadose	Cell17-Square204-S-2-191202	12/2/2019	138	--	0.0638	U	34.2	U	138	--
Cell 17	Vadose	Cell17-Square 113-S-3-4-200114	1/14/2020	5.67	J	0.59	U	7.27	J	12.94	J
Cell 17	Vadose	Cell17-Square 175-S-3-4-200114	1/14/2020	1.70	U	0.585	U	4.98	U	4.98	U
Cell 17	Vadose	Cell17-Square 207-S-3-4-200114	1/14/2020	1.70	U	0.585	U	4.98	U	4.98	U
Cell 17	Vadose	Cell17-Square 45-S-3-4-200114	1/14/2020	1.71	U	0.581	U	4.99	U	4.99	U
Cell 17	Vadose	Cell17-Square200-S-2-3-200326	3/26/2020	481	--	0.585	U	28.8	--	510	J
Cell 17	Vadose	Cell17-Square-129-S-2-3-200429	4/29/2020	1.87	U	0.602	U	10.4	--	10.4	J
Cell 17	Vadose	Cell17-Square-190-S-2-3-200429	4/29/2020	2.02	U	0.670	U	14.2	--	14.2	J
Cell 17	Vadose	Cell17-Square-37-S-2-3-200429	4/29/2020	1.91	U	0.685	U	11.5	--	11.5	J
Cell 17	Vadose	Cell17-Square-91-S-2-3-200429	4/29/2020	5.06	J	0.675	U	5.67	U	5.1	J
Cell 17	Vadose	Cell17-Square46-S-2-3-200625	6/25/2020	2.14	U	0.743	U	6.25	U	6.25	J
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	8/6/2020	2.84	U	0.657	U	30.4	--	30.40	J
Cell 17	Vadose	Cell17-Square152-S-2-3-200806	8/6/2020	2.68	U	0.64	U	32.1	--	32.10	J
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	8/6/2020	4.62	J	0.684	U	28.7	--	33.3	J
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	8/6/2020	3.51	J	0.804	U	30.6	--	34.1	J
Cell 17	Vadose	Cell 17-Square 24-S-3-4-200924	9/24/2020	6.77	J	0.620	U	49.3	--	56.07	J
Cell 17	Vadose	Cell17-Square179-S-2-3-201210	12/10/2020	15.0	U	15.0	U	15.0	U	15.0	U
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	21.2	U	21.2	U	21.2	U	63.6	--
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	21.0	U	21.0	U	21.0	U	63.0	--
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	21.1	U	21.1	U	21.1	U	63.3	--
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	21.1	U	21.1	U	21.1	U	63.3	--
Cell 17	Vadose	Cell17-Square16-S-3-4-211213	12/13/2021	22.9	U	22.9	U	22.9	U	68.7	--
Cell 17	Vadose	Cell17-Square116-S-3-4-211213	12/13/2021	22.6	U	22.6	U	22.6	U	67.8	--
Cell 17	Vadose	Cell17-Square120-S-3-4-211213	12/13/2021	22.5	U	22.5	U	22.5	U	67.5	--
Cell 17	Vadose	Cell17-Square130-S-3-4-211213	12/13/2021	25.1	U	25.1	U	25.1	U	75.3	--
Cell 17	Vadose	Cell17-Square 26-S-3-4-220124	1/24/2022	21.1	U	21.1	U	21.1	U	63.3	--
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	20.8	U	20.8	U	20.8	U	62.4	--
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	21.1	U	21.1	U	21.1	U	63.3	--
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	21.1	U	21.1	U	21.1	U	63.3	--
Cell 17	Vadose	Cell17-114-S-3-4-220607	6/7/2022	21.2	U	21.2	U	21.2	U	63.6	U
Cell 17	Vadose	Cell17-154-S-3-4-220607	6/7/2022	21.1	U	21.1	U	21.1	U	63.3	U
Cell 17	Vadose	Cell17-178-S-3-4-220607	6/7/2022	21.2	U	21.2	U	21.2	U	63.6	U
Cell 17	Vadose	Cell17-59-S-3-4-220607	6/7/2022	21.0	U	21.0	U	21.0	U	63.0	U
Cell 17	Vadose	Cell17-6-S-3-4-221206	12/6/2022	34.4	U	2.49	U	34.4	U	71.3	--
Cell 17	Vadose	Cell17-45-S-3-4-221206	12/6/2022	35.4	U	2.48	U	35.4	U	73.3	--
Cell 17	Vadose	Cell17-199-S-3-4-221206	12/6/2022	33.9	U	2.51	U	33.9	U	70.3	--
Cell 17	Vadose	Cell17-203-S-3-4-221206	12/6/2022	36.2	U	2.49	U	36.2	U	74.9	--
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	2.67	U	2.67	U	9.93	J	15.3	--
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	3.57	U	2.63	U	12.2	U	18.4	--
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	3.98	J	2.67	U	21.8	--	28.5	--
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	3.77	J	2.70	U	23.4	--	29.9	--
Cell 17	Vadose	Cell17-Square118-S-3-4-20230830	8/30/2023	3.92	J	2.67	U	178	--	184.6	--
Cell 17	Vadose	Cell17-Square141-S-3-4-20230830	8/30/2023	3.06	J	2.99	U	12.0	J	18.1	--
Cell 17	Vadose	Cell17-Square51-S-3-4-20230830	8/30/2023	2.70	U	2.75	U	9.22	U	14.7	--
Cell 17	Vadose	Cell17-Square56-S-3-4-20230830	8/30/2023	2.96	J	2.60	U	8.88	J	14.4	--
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	3.45	JB	2.73	U	14.9	JB	21.1	--
Cell 17	Vadose	Cell 17-Square 183-S-3-4-20230612	12/6/2023	5.35	JB	2.59	U	17.3	--	25.2	--
Cell 17	Vadose	Cell 17-Square 205-S-3-4-20230612	12/6/2023	3.19	JB	3.16	U	14.4	J	20.8	--
Cell 17	Vadose	Cell 17-Square 48-S-3-4-20230612	12/6/2023	4.85	JB	2.63	U	21.3	--	28.8	--
Cell 17	Vadose	Cell 17-Square1-S-3-4-20230612	12/6/2023	6.67	JB	2.83	U	17.7	J	27.2	--
Cell 17	Vadose	Cell17-Square2-S-3-4-240122	1/22/2024	7.8	U	2.70	U	28.1	JB	28.1	JB
Cell 17	Vadose	Cell17-Square22-S-3-4-240122	1/22/2024	10.4	JB	2.65	U	38.8	JB	49.2	JB
Cell 17	Vadose	Cell17-Square47-S-3-4-240122	1/22/2024	7.44	U	2.68	U	27.1	JB	27.1	JB
Cell 17	Vadose	Cell 17-Square 27-S-3-4-240123	1/23/2024	9.44	JB	2.68	U	35.1	JB	44.54	JB
Cell 17	Vadose	Cell 17-Square 49-S-3-4-240123	1/23/2024	15.2	JB	2.69	U	41.0	JB	56.2	JB
Cell 17	Vadose	Cell 17-Square 69-S-3-4-240123	1/23/2024	12.0	JB	2.72	U	35.6	JB	47.6	JB
Cell 17	Vadose	Cell17-Square64-S-3-4-240716	7/16/2024	6.98	JB	2.62	U	12.9	JB	22.5	--
Cell 17	Vadose	Cell17-Square44-S-3-4-240716	7/16/2024	4.18	JB	2.64	U	11.5	JB	18.3	--
Cell 17	Vadose	Cell17-Square24-S-3-4-240716	7/16/2024	3.15	JB	2.72	U	10.0	JB	15.9	--
Cell 17	Vadose	Cell17-Square4-S-3-4-240716	7/16/2024	3.29	JB	2.69	U	9.44	JB	15.4	--
Cell 17	Vadose	Cell17-Square6-S-3-4-240717	7/17/2024	3.24	JB	2.62	U	13.2	JB	19.1	--
Cell 18	Vadose	C18-Sq125-S-3-4-180313	3/13/2018	4.9900	UB	0.0921	--	4.99	--	5.1	--
Cell 18	Vadose	C18-Sq203-S-3-4-180313	3/13/2018	4.970	UB	0.10	--	4.97	--	5.1	--
Cell 18	Vadose	C18-Sq40-S-3-4-180313	3/13/2018	4.9900	--	0.10	--	4.99	--	10.08	--
Cell 18	Vadose	C18-Sq52-S-3-4-180313	3/13/2018	4.980	U	0.09	U	4.98	U	4.98	U
Cell 18	Vadose	Cell18-Square154-S-3-4-180927	9/27/2018	4.940	U	0.0914	U	4.94	U	4.9	U
Cell 18	Vadose	Cell18-Square58-S-3-4-180927	9/27/2018	2.3300	J	0.09	U	4.97	U	2.3	--
Cell 18	Vadose	Cell18-Square71-S-3-4-180927	9/27/2018	4.9000	U	0.0994	U	4.90	U	4.9	U
Cell 18	Vadose	Cell18-Square8-S-3-4-180927	9/27/2018	3.950	J	0.0977	U	4.95	U	4.0	--
Cell 18	Vadose	C18-Square 120-S-2-3	3/26/2019	2.07	J	1.22	U	1.97	U	2.07	--
Cell 18	Vadose	Cell18-Square133-S-2-3-190506	5/6/2019	18.5	B	0.0459	U	25.5	--	44	
Cell 18	Vadose	Cell18-Square194-S-2-3-190506	5/6/2019	4.30	JB	0.0474	U	1.98	U	4.30	
Cell 18	Vadose	Cell18-Square2-S-2-3-190506	5/6/2019	3.56	JB	0.0474	U	1.98	U	3.56	
Cell 18	Vadose	Cell18-Square56-S-2-3-190506	5/6/2019	2.68	J	0.0531	U	2.00	U	2.68	
Cell 18	Vadose	Cell 18-square82-S-2-3-190618	6/18/2019	3.41	J	1.32	U	2.0	J	5.41	--
Cell 18	Vadose	Cell 18-Square 20-S-2-3-190903	9/3/2019	3.03	J	1.24	U	1.91	U	3.03	--
Cell 18	Vadose	Cell18-Square179-S-2-191202	12/2/2019	66.4	--	0.0645	U	71.1	--	138	--
Cell 18	Vadose	Cell18-Square 133-S-3-4-200114	1/14/2020	1.71	U	0.591	U	4.99	U	4.99	U
Cell 18	Vadose	Cell18-Square 181-S-3-4-200114	1/14/2020	1.70	U	0.576	U	4.97	U	4.97	U
Cell 18	Vadose	Cell18-Square 83-S-3-4-200114	1/14/2020	7.29	J	0.59	U	4.98	U	7.29	J
Cell 18	Vadose	Cell18-Square 92-S-3-4-200114	1/14/2020	1.71	U	0.591	U	4.99	U	4.99	J
Cell 18	Vadose	Cell18-Square163-S-2-3-200326	3/26/2020	53.1	--	0.553	U	35.6	--	89	J
Cell 18	Vadose	Cell18-Square-202-S-2-3-200428	4/28/2020	2.44	U	0.856	U	15.8	--	15.8	J
Cell 18	Vadose	Cell18-Square-35-S-2-3-200428	4/28/2020	2.15	U	0.742	U	13.9	--	13.9	J
Cell 18	Vadose	Cell18-Square-55-S-2-3-200428	4/28/2020	2.10	U	0.747	U	13.2	--	13.2	J

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			Units	mg/kg		mg/kg		mg/kg		mg/kg	
			Part 29 Closure Criteria	--		--		--		100	
Landfarm Cell	Zone	Sample ID	Sampling Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 18	Vadose	Cell18-Square-59-S-2-3-200428	4/28/2020	2.23	U	0.766	U	14.2	--	14.2	J
Cell 18	Vadose	Cell18-Square31-S-2-3-200625	6/25/2020	2.24	U	0.752	U	13.6	--	13.60	J
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	8/6/2020	2.78	U	0.626	U	8.14	U	8.1	J
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	8/6/2020	3.23	U	0.784	U	56.5	--	56.5	J
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	8/6/2020	2.93	U	0.714	U	8.56	U	8.6	J
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	8/6/2020	9.79	U	0.719	U	28.6	U	28.6	J
Cell 18	Vadose	Cell 18-Square 131-S-3-4-200924	9/24/2020	34.2	--	0.577	U	133	--	167.20	J
Cell 18	Vadose	Cell18-Square74-S-2-3-201210	12/10/2020	15.0	U	15.0	U	15.0	U	15.0	U
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	21.1	U	21.1	U	21.1	U	63.3	--
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	21.1	U	21.1	U	21.1	U	63.3	--
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	21.0	U	21.0	U	21.0	U	63.0	--
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	21.0	U	21.0	U	21.0	U	63.0	--
Cell 18	Vadose	Cell18-Square14-S-3-4-211213	12/13/2021	24.3	U	24.3	U	24.3	U	72.9	--
Cell 18	Vadose	Cell18-Square156-S-3-4-211213	12/13/2021	23.3	U	23.3	U	23.3	U	69.9	--
Cell 18	Vadose	Cell18-Square175-S-3-4-211213	12/13/2021	23.1	U	23.1	U	23.1	U	69.3	--
Cell 18	Vadose	Cell18-Square22-S-3-4-211213	12/13/2021	28.0	U	28.0	U	28.0	U	84	--
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	21.1	U	21.1	U	21.1	U	63.3	--
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	21.1	U	21.1	U	21.1	U	63.3	--
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	20.8	U	20.8	U	20.8	U	62.4	--
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	21.0	U	21.0	U	21.0	U	63.0	--
Cell 18	Vadose	Cell18-133-S-3-4-220607	6/7/2022	21.1	U	21.1	U	21.1	U	63.3	U
Cell 18	Vadose	Cell18-195-S-3-4-220607	6/7/2022	21.1	U	21.1	U	21.1	U	63.3	U
Cell 18	Vadose	Cell18-198-S-3-4-220607	6/7/2022	21.1	U	21.1	U	21.1	U	63.3	U
Cell 18	Vadose	Cell18-36-S-3-4-220607	6/7/2022	21.1	U	21.1	U	21.1	U	63.3	U
Cell 18	Vadose	Cell18-133-S-3-4-221206	12/6/2022	34.4	U	2.50	U	34.4	U	71.3	--
Cell 18	Vadose	Cell18-181-S-3-4-221206	12/6/2022	35.7	U	2.50	U	35.7	U	73.9	--
Cell 18	Vadose	Cell18-83-S-3-4-221206	12/6/2022	34.1	U	2.52	U	34.1	U	70.7	--
Cell 18	Vadose	Cell18-92-S-3-4-221206	12/6/2022	33.0	U	2.49	U	33.0	U	68.5	--
Cell 18	Vadose	Cell18-Square150-S-3-4-230605	6/5/2023	4.37	J	2.81	U	13.5	U	4.37	J
Cell 18	Vadose	Cell18-Square26-S-3-4-230605	6/5/2023	3.91	U	2.77	U	13.4	U	13.4	U
Cell 18	Vadose	Cell18-Square54-S-3-4-230605	6/5/2023	4.83	J	2.82	U	14.1	U	14.1	U
Cell 18	Vadose	Cell18-Square75-S-3-4-230605	6/5/2023	6.84	J	2.77	U	13.7	U	13.7	U
Cell 18	Vadose	Cell 18-Square 184-S-3-4-20230512	12/5/2023	3.01	J	2.74	U	9.2	U	14.9	--
Cell 18	Vadose	Cell 18-Square 114-S-3-4-20230612	12/6/2023	5.04	JB	2.65	U	17.5	--	25.2	--
Cell 18	Vadose	Cell 18-Square 13-S-3-4-20230612	12/6/2023	3.41	JB	2.66	U	11.1	J	17.2	--
Cell 18	Vadose	Cell 18-Square 42-S-3-4-20230612	12/6/2023	3.15	JB	2.70	U	10.2	J	16.1	--
Cell 18	Vadose	Cell 18-Square 21-S-3-4-240123	1/23/2024	9.82	JB	2.74	U	29.7	JB	39.5	JB
Cell 18	Vadose	Cell18-Square120-S-3-4-240717	7/17/2024	3.02	JB	2.69	U	8.73	U	14.4	--
Cell 18	Vadose	Cell18-Square140-S-3-4-240717	7/17/2024	2.62	U	2.72	U	8.95	U	14.3	--
Cell 18	Vadose	Cell18-Square142-S-3-4-240717	7/17/2024	2.64	U	2.68	U	9.01	U	14.3	--
Cell 18	Vadose	Cell18-Square63-S-3-4-240717	7/17/2024	3.63	JB	2.66	U	11.5	JB	17.8	--
Cell 19	Vadose	C19-Sq169-S-3-4-180313	3/13/2018	4.9400	U	0.10	U	4.94	U	4.9	U
Cell 19	Vadose	C19-Sq183-S-3-4-180313	3/13/2018	4.9600	UB	0.0998	U	4.96	U	5.0	U
Cell 19	Vadose	C19-Sq193-S-3-4-180313	3/13/2018	4.8700	UB	0.0967	U	4.87	U	4.9	U
Cell 19	Vadose	C19-Sq52-S-3-4-180313	3/13/2018	4.9200	U	0.10	U	4.92	U	4.9	U
Cell 19	Vadose	Cell19-Square198-S-3-4-180926	9/26/2018	3.4500	J	0.0996	U	5.00	U	3.5	--
Cell 19	Vadose	Cell19-Square96-S-3-4-180926	9/26/2018	4.9600	U	0.0929	U	4.96	U	5.0	U
Cell 19	Vadose	Cell19-Square56-S-3-4-180927	9/27/2018	5.0	U	0.099	U	4.99	U	5.0	U
Cell 19	Vadose	Cell19-Square98-S-3-4-180927	9/27/2018	4.960	U	0.098	U	4.96	U	5.0	U
Cell 19	Vadose	C19-Square 183-S-2-3	3/26/2019	1.99	U	1.34	U	1.99	U	1.99	--
Cell 19	Vadose	Cell 19-square173-S-2-3-190618	6/18/2019	2.80	J	1.09	U	5.16	--	7.96	--
Cell 19	Vadose	Cell 19-Square156-S-2-3-190723	7/23/2019	2.29	J	0.0248	U	2.67	J	4.96	--
Cell 19	Vadose	Cell 19-Square184-S-2-3-190723	7/23/2019	2	U F1 F2	0.0274	U	2	U	2	--
Cell 19	Vadose	Cell19-Square132-S-2-3-190723	7/23/2019	16.6	B	0.0174	U	25	--	41.6	--
Cell 19	Vadose	Cell19-Square23-S-2-3-1907233	7/23/2019	2.94	J	0.0187	U	2	U	2.94	--
Cell 19	Vadose	Cell 19-Square 197-S-2-3-190903	9/3/2019	2.52	J	1.26	U	1.98	U	2.52	--
Cell 19	Vadose	Cell19-Square83-S-2-191202	12/2/2019	224	--	0.0641	U	270	--	494	--
Cell 19	Vadose	Cell19-Square-105-S-3-4-200115	1/15/2020	1.71	U	0.584	U	4.99	U	4.99	J
Cell 19	Vadose	Cell19-Square-204-S-3-4-200115	1/15/2020	1.71	U	0.558	U	4.99	U	4.99	J
Cell 19	Vadose	Cell19-Square-82-S-3-4-200115	1/15/2020	1.70	U	0.593	U	4.97	U	4.97	J
Cell 19	Vadose	Cell19-Square-93-S-3-4-200115	1/15/2020	6.58	J	0.561	U	4.98	U	6.58	J
Cell 19	Vadose	Cell19-Square144-S-2-3-200326	3/26/2020	10.2	J	0.57	U	14.9	U	10.2	J
Cell 19	Vadose	Cell19-Square-171-S-2-3-200427	4/27/2020	1.88	U	0.641	U	5.51	U	5.5	J
Cell 19	Vadose	Cell19-Square-154-S-2-3-200428	4/28/2020	1.86	U	0.611	U	14.1	--	14.1	J
Cell 19	Vadose	Cell19-Square-23-S-2-3-200428	4/28/2020	9.22	--	0.762	U	18.9	--	28.1	J
Cell 19	Vadose	Cell19-Square-93-S-2-3-200428	4/28/2020	4.24	J	0.810	U	17.8	--	22.0	J
Cell 19	Vadose	Cell19-Square82-S-2-3-200625	6/25/2020	6.10	J	0.820	U	11.4	--	17.5	J
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	8/6/2020	2.87	U	0.618	U	8.41	U	8.4	J
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	8/7/2020	11.8	--	0.664	U	37.6	--	49.4	J
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	8/7/2020	3.73	J	0.699	U	37.2	--	40.9	J
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	8/7/2020	4.65	J	0.731	J	38.2	--	43.6	J
Cell 19	Vadose	Cell 19-Square 156-S-3-4-200924	9/24/2020	14.6	--	0.563	U	77.1	--	91.70	J
Cell 19	Vadose	Cell19-Square79-S-2-3-201210	12/10/2020	15.0	U	15.0	U	15.0	U	15.0	U
Cell 19	Vadose	Cell19-Square168-S-3-4-210618	6/18/2021	20.9	U	20.9	U	21	U	63	--
Cell 19	Vadose	Cell19-Square17-S-3-4-210618	6/18/2021	21.2	U	21.2	U	21	U	64	--
Cell 19	Vadose	Cell19-Square47-S-3-4-210618	6/18/2021	21.2	U	21.2	U	21	U	64	--
Cell 19	Vadose	Cell19-Square73-S-3-4-210618	6/18/2021	21	U	21	U	21	U	63	--
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	20.9	U	20.9	U	20.9	U	62.7	--
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	21.1	U	21.1	U	21.1	U	63.3	--
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	21.1	U	21.1	U	21.1	U	63.3	--
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	21.3	U	21.3	U	21.3	U	63.9	--
Cell 19	Vadose	Cell19-Square144-S-3-4-211213	12/13/2021	22.2	U	22.2	U	22.2	U	66.6	--
Cell 19	Vadose	Cell19-Square83-S-3-4-211213	12/13/2021	23.5	U	23.5	U	23.5	U	70.5	--
Cell 19	Vadose	Cell19-Square128-S-3-4-211214	12/14/2021	21.6	U	21.6	U	21.6	U	64.8	--
Cell 19	Vadose	Cell19-Square27-S-3-4-211214	12/14/2021	22.5	U	22.5	U	22.5	U	67.5	--
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	21.2	U	21.2	U	21.2	U	63.6	--
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	21.1	U	21.1	U	21.1	U	63.3	--
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	21.0	U	21.0	U	21.0	U	63.0	--
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	21.1	U	21.1	U	21.1	U	63.3	--
Cell 19	Vadose	Cell19-115-S-3-4-220607	6/7/2022	21.1	U	21.1	U	21.1	U	63.3	U
Cell 19	Vadose	Cell19-149-S-3-4-220607	6/7/2022	21.3	U	21.3	U	21.3	U	63.9	U
Cell 19	Vadose	Cell19-203-S-3-4-220607	6/7/2022	21.0	U	21.0	U	21.0	U	63.0	U
Cell 19	Vadose	Cell19-96-S-3-4-220607	6/7/2022	21.1	U	21.1	U	21.1	U	63.3	U
Cell 19	Vadose	Cell19-204-S-3-4-221205	12/5/2022	36.1	U	2.51	U	36.1	U	74.7	--
Cell 19	Vadose	Cell19-82-S-3-4-221205	12/5/2022	33.4	U	2.49	U	33.4	U	69.3	--
Cell 19	Vadose	Cell19-84-S-3-4-221205	12/5/2022	33.6	U	2.50	U	33.6	U	69.7	--

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			Part 29 Closure Criteria	--		--		--		100	
Landfarm Cell	Zone	Sample ID	Sampling Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 19	Vadose	Cell19-93-S-3-4-221205	12/5/2022	35.2	U	2.5	U	35.2	U	72.9	--
Cell 19	Vadose	Cell19-Square186-S-3-4-20230831	8/31/2023	8.33	J	2.68	U	86.4	--	97.4	--
Cell 19	Vadose	Cell19-Square35-S-3-4-20230831	8/31/2023	6.31	J	2.73	U	73.9	--	82.9	--
Cell 19	Vadose	Cell19-Square51-S-3-4-20230831	8/31/2023	9.97	--	2.62	U	46.9	--	59.5	--
Cell 19	Vadose	Cell19-Square97-S-3-4-20230831	8/31/2023	6.92	J	2.78	U	84.1	--	93.8	--
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	16.4	b	2.60	U	52.6	--	71.6	--
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	3.52	JB	2.78	U	9.19	U	15.5	--
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	4.04	JB	2.75	U	9.06	U	15.9	--
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	5.75	JB	2.78	U	12.0	J	20.5	--
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	2.69	JB	2.67	U	11.5	JB	16.9	--
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	3.39	JB	2.64	U	9.82	JB	15.9	--
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	5.42	JB	2.74	U	23.2	B	31.4	--
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	2.61	U	2.66	U	11.3	JB	16.6	--
Cell 19	Vadose	Cell 19-Square 119-S-3-4-20230512	12/5/2023	58.1	--	2.65	U	162	--	222.8	--
Cell 19	Vadose	Cell 19-Square 31-S-3-4-20230512	12/5/2023	2.30	J	2.66	U	8.55	U	13.5	--
Cell 19	Vadose	Cell 19-Square 71-S-3-4-20230512	12/5/2023	3.11	J	2.63	U	8.3	U	14.1	--
Cell 19	Vadose	Cell 19-Square 75-S-3-4-20230512	12/5/2023	5.36	J	2.70	U	15.9	J	24.0	--
Cell 19	Vadose	Cell19-Square118-S-3-4-240124	1/24/2024	9.69	JB	2.80	U	25.9	U	9.69	JB
Cell 19	Vadose	Cell19-Square120-S-3-4-240124	1/24/2024	9.64	JB	2.81	U	33.4	JB	43.04	JB
Cell 19	Vadose	Cell19-Square140-S-3-4-240124	1/24/2024	7.47	U	2.60	U	30.6	JB	30.6	JB
Cell 19	Vadose	Cell19-Square98-S-3-4-240124	1/24/2024	15.10	JB	2.66	U	41.7	JB	56.80	JB
Cell 20	Vadose	C20-Sq81-S-3-4-180313	3/13/2018	4.9900	UB	0.101	--	4.99	--	5.1	--
Cell 20	Vadose	Cell20-Square110-S-3-4-180314	3/14/2018	5.0	U	0.0931	U	4.98	U	5.0	U
Cell 20	Vadose	Cell20-Square136-S-3-4-180314	3/14/2018	4.9400	U	0.0976	U	4.94	U	4.9	U
Cell 20	Vadose	Cell20-Square161-S-3-4-180314	3/14/2018	4.9800	UB	0.101	U	4.98	U	5.0	U
Cell 20	Vadose	Cell20-Square118-S-3-4-180926	9/26/2018	4.97	U	0.0982	U	4.97	U	4.97	U
Cell 20	Vadose	Cell20-Square204-S-3-4-180926	9/26/2018	2.8	J	0.0962	U	4.91	U	2.8	--
Cell 20	Vadose	Cell20-Square59-S-3-4-180926	9/26/2018	3.69	J	0.099	U	4.97	U	3.69	--
Cell 20	Vadose	Cell20-Square64-S-3-4-180926	9/26/2018	3.83	J	0.0963	U	4.88	U	3.83	--
Cell 20	Vadose	C20-Square 157-S-2-3	3/26/2019	32.0	--	1.32	U	14.7	--	46.7	--
Cell 20	Vadose	Cell 20-square79-S-2-3-190618	6/18/2019	3.05	J	1.10	U	6.05	--	9.10	--
Cell 20	Vadose	Cell20-Square102-S-2-3-190723	7/23/2019	1.95	U	0.026	U	1.95	U	1.95	--
Cell 20	Vadose	Cell20-Square179-S-2-3-190723	7/23/2019	2.97	J	0.029	U	1.97	U	2.97	--
Cell 20	Vadose	Cell20-Square193-S-2-3-190723	7/23/2019	3.07	J	0.0273	U	2.14	J	5.21	--
Cell 20	Vadose	Cell20-Square96-S-2-3-190723	7/23/2019	2.84	J	0.0241	U	1.99	U	2.84	--
Cell 20	Vadose	Cell 20-Square 85-S-2-3-190903	9/3/2019	4.80	J	1.20	U	3.44	J	8.24	--
Cell 20	Vadose	Cell20-Square 42-S-2-3-191202	12/2/2019	34.5	U	0.0650	U	34.5	U	34.5	--
Cell 20	Vadose	Cell20-Square141-S-2-3-200326	3/26/2020	7.92	J	0.601	U	14.9	U	7.9	J
Cell 20	Vadose	Cell20-Square-105-S-2-3-200427	4/27/2020	1.98	U	0.675	U	13.4	--	13.4	J
Cell 20	Vadose	Cell20-Square-187-S-2-3-200427	4/27/2020	1.98	U	0.731	U	10.8	--	10.8	J
Cell 20	Vadose	Cell20-Square-91-S-2-3-200427	4/27/2020	2.15	U	0.773	U	13.4	--	13.4	J
Cell 20	Vadose	Cell20-Square-99-S-2-3-200427	4/27/2020	1.97	U	0.728	U	12.7	--	12.7	J
Cell 20	Vadose	Cell20-Square152-S-2-3-200625	6/25/2020	4.31	J	0.759	U	6.95	U	4.3	J
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	8/7/2020	1.94	U	0.940	J	5.66	U	0.9	J
Cell 20	Vadose	Cell 20-Square 12-S-3-4-200924	9/24/2020	4.31	J	0.611	U	29.3	--	33.61	J
Cell 20	Vadose	Cell20-Square92-S-2-3-201210	12/10/2020	15.0	U	15.0	U	15.0	U	15.0	U
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	20.9	U	20.9	U	20.9	U	62.7	--
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	21.1	U	21.1	U	21.1	U	63.3	--
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	21.4	U	21.4	U	21.4	U	64.2	--
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	20.9	U	20.9	U	20.9	U	62.7	--
Cell 20	Vadose	Cell20-Square14-S-3-4-211214	12/14/2021	22.3	U	22.3	U	22.3	U	66.9	--
Cell 20	Vadose	Cell20-Square18-S-3-4-211214	12/14/2021	24.0	U	24.0	U	24.0	U	72.0	--
Cell 20	Vadose	Cell20-Square41-S-3-4-211214	12/14/2021	23.0	U	23.0	U	23.0	U	69.0	--
Cell 20	Vadose	Cell20-Square170-S-3-4-211214	12/14/2021	22.2	U	22.2	U	22.2	U	66.6	--
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	21.0	U	21.0	U	21.0	U	63.0	--
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	20.9	U	20.9	U	20.9	U	62.7	--
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	21.0	U	21.0	U	21.0	U	63.0	--
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	21.1	U	21.1	U	21.1	U	63.3	--
Cell 20	Vadose	Cell20-111-S-3-4-220607	6/7/2022	21.1	U	21.1	U	21.1	U	63.3	U
Cell 20	Vadose	Cell20-176-S-3-4-220607	6/7/2022	21.0	U	21.0	U	21.0	U	63.0	U
Cell 20	Vadose	Cell20-59-S-3-4-220607	6/7/2022	21.1	U	21.1	U	21.1	U	63.3	U
Cell 20	Vadose	Cell20-71-S-3-4-220607	6/7/2022	21.2	U	21.2	U	21.2	U	63.6	U
Cell 20	Vadose	Cell20-38-S-3-4-220726	7/26/2022	21.6	U	21.6	U	21.6	U	64.8	U
Cell 20	Vadose	Cell20-58-S-3-4-220726	7/26/2022	21.5	U	21.5	U	21.5	U	64.5	U
Cell 20	Vadose	Cell20-60-S-3-4-220726	7/26/2022	21.4	U	21.4	U	21.4	U	64.2	U
Cell 20	Vadose	Cell20-80-S-3-4-220726	7/26/2022	21.3	U	21.3	U	21.3	U	63.9	U
Cell 20	Vadose	Cell20-102-S-3-4-221205	12/5/2022	34.1	U	2.53	U	34.1	U	70.7	--
Cell 20	Vadose	Cell20-179-S-3-4-221205	12/5/2022	34.7	U	2.50	U	34.7	U	71.9	--
Cell 20	Vadose	Cell20-187-S-3-4-221205	12/5/2022	35.4	U	2.49	U	35.4	U	73.3	--
Cell 20	Vadose	Cell20-204-S-3-4-221205	12/5/2022	34.2	U	2.51	U	34.2	U	70.9	--
Cell 20	Vadose	Cell 20-Square 113-S-3-4-20230512	12/5/2023	5.66	J	2.61	U	22.2	--	30.5	--
Cell 20	Vadose	Cell 20-Square 131-S-3-4-20230512	12/5/2023	22.2	--	2.78	U	61.2	--	86.2	--
Cell 20	Vadose	Cell 20-Square 134-S-3-4-20230512	12/5/2023	5.61	J	3.00	U	17.9	J	26.5	--
Cell 20	Vadose	Cell 20-Square 4-S-3-4-20230512	12/5/2023	2.22	J	2.61	U	8.70	J	13.5	--
Cell 20	Vadose	Cell 20-Square 110-S-3-4-240125	1/25/2024	7.89	U	2.73	U	37.5	J	37.5	J
Cell 20	Vadose	Cell 20-Square 130-S-3-4-240125	1/25/2024	7.78	U	2.75	U	37.1	J	37.1	J
Cell 20	Vadose	Cell20-Square 10-S-3-4-240430	4/30/2024	2.09	JB	2.77	U	13.7	U	18.6	--
Cell 20	Vadose	Cell20-Square 31-S-3-4-240430	4/30/2024	4.84	JB	3.59	U	23.7	J	32.1	--
Cell 20	Vadose	Cell20-Square 63-S-3-4-240430	4/30/2024	2.41	JB	3.02	U	15.2	U	20.6	--
Cell 20	Vadose	Cell20-Square 181-S-3-4-240430	4/30/2024	2.27	JB	2.77	U	14.1	J	19.1	--
Cell 21	Vadose	Cell21-Square135-S-3-4-180314	3/14/2018	4.99	UB	0.102	U	4.99	U	5.0	U
Cell 21	Vadose	Cell21-Square176-S-3-4-180314	3/14/2018	4.99	U	0.0921	U	4.99	U	5.0	U
Cell 21	Vadose	Cell21-Square57-S-3-4-180314	3/14/2018	4.94	UB	0.0919	U	4.94	U	4.9	U
Cell 21	Vadose	Cell21-Square80-S-3-4-180314	3/14/2018	4.95	U	0.103	U	4.95	U	5.0	U
Cell 21	Vadose	Cell21-Square70-S-3-4-180925	9/25/2018	4.97	U	0.0969	U	4.97	U	4.97	U
Cell 21	Vadose	Cell21-Square30-S-3-4-180926	9/26/2018	4.9	U	0.0952	U	4.9	U	4.9	U
Cell 21	Vadose	Cell21-Square33-S-3-4-180926	9/26/2018	2.34	J	0.0912	U	4.96	U	2.34	--
Cell 21	Vadose	Cell21-Square36-S-3-4-180926	9/26/2018	2.16	J	0.0969	U	5	U	2.16	--
Cell 21	Vadose	C21-Square 115-S-2-3	3/26/2019	2.44	J	1.37	U	1.98	U	2.44	--
Cell 21	Vadose	Cell 21-square196-S-2-3-190618	6/18/2019	2.05	J	1.29	U	1.96	U	2.05	--
Cell 21	Vadose	Cell 21-Square 1-S-2-3-190903	9/3/2019	3.52	J	1.31	U	1.99	U	3.52	--
Cell 21	Vadose	Cell21-Square107-S-2-191203	12/3/2019	33.5	U	0.0637	U	44.0	J	44.0	--
Cell 21	Vadose	Cell21-Square182-S-2-3-200326	3/26/2020	17.0	--	0.547	U	7.44	U	17.0	J
Cell 21	Vadose	Cell21-Square-14-S-2-3-200428	4/28/2020	2.21	U	0.730	U	15.1	--	15.1	J
Cell 21	Vadose	Cell21-Square-155-S-2-3-200428	4/28/2020	2.03	U	0.705	U	13.5	--	13.5	J
Cell 21	Vadose	Cell21-Square-47-S-2-3-200428	4/28/2020	2.11	U	0.768	U	6.18	U	6.2	J

Table 1
2018 – 2024 Vadose Zone Analytical Results: TPH
Site Characterization & Soil Remediation Work Plan
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

			Constituent	DRO		GRO		ORO		TPH[a]	
			Units	mg/kg		mg/kg		mg/kg		mg/kg	
			Part 29 Closure Criteria	--		--		--		100	
Landfarm Cell	Zone	Sample ID	Sampling Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 21	Vadose	Cell21-Square-76-S-2-3-200428	4/28/2020	2.18	U	0.765	U	6.39	U	6.4	J
Cell 21	Vadose	Cell21-Square73-S-2-3-200625	6/25/2020	8.01	--	0.853	U	7.02	U	8.0	J
Cell 21	Vadose	Cell 21-Square 23-S-3-4-200924	9/24/2020	61.4	--	0.580	U	230	--	291.40	J
Cell 21	Vadose	Cell21-Square40-S-2-3-201210	12/10/2020	15.0	U	15.0	U	15.0	U	15.0	U
Cell 21	Vadose	Cell21-Square18-S-3-4-211214	12/14/2021	22.2	U	22.2	U	22.2	U	66.6	--
Cell 21	Vadose	Cell21-Square37-S-3-4-211214	12/14/2021	31.3	J	22.5	U	22.5	U	76.3	--
Cell 21	Vadose	Cell21-Square90-S-3-4-211214	12/14/2021	23.2	U	23.2	U	23.2	U	69.6	--
Cell 21	Vadose	Cell21-Square117-S-3-4-211214	12/14/2021	22.4	U	22.4	U	22.4	U	67.2	--
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	21.0	U	21.0	U	21.0	U	63.0	--
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	25.5	J	21.0	U	21.0	U	67.5	--
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	21.1	U	21.1	U	21.1	U	63.3	--
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	21.1	U	21.1	U	21.1	U	63.3	--
Cell 21	Vadose	Cell21-156-S-3-4-220606	6/6/2022	21.0	U	21.0	U	21.0	U	63.0	U
Cell 21	Vadose	Cell21-41-S-3-4-220606	6/6/2022	21.1	U	21.1	U	21.1	U	63.3	U
Cell 21	Vadose	Cell21-46-S-3-4-220606	6/6/2022	21.2	U	21.2	U	21.2	U	63.6	U
Cell 21	Vadose	Cell21-94-S-3-4-220606	6/6/2022	21.0	U	21.0	U	21.0	U	63.0	U
Cell 21	Vadose	Cell21-20-S-3-4-220726	7/26/2022	21.4	U	21.4	U	21.4	U	64.2	U
Cell 21	Vadose	Cell21-40-S-3-4-220726	7/26/2022	20.8	U	20.8	U	20.8	U	62.4	U
Cell 21	Vadose	Cell21-42-S-3-4-220727	7/27/2022	21.6	U	21.6	U	21.6	U	64.8	U
Cell 21	Vadose	Cell21-62-S-3-4-220727	7/27/2022	19.3	U	19.3	U	19.3	U	57.9	U
Cell 21	Vadose	Cell21-155-S-3-4-221206	12/6/2022	35.6	U	2.52	U	35.6	U	73.7	--
Cell 21	Vadose	Cell21-47-S-3-4-221206	12/6/2022	34.5	U	2.52	U	34.5	U	71.5	--
Cell 21	Vadose	Cell21-61-S-3-4-221206	12/6/2022	34.7	U	2.52	U	34.7	U	71.9	--
Cell 21	Vadose	Cell21-76-S-3-4-221206	12/6/2022	35.8	U	2.52	U	35.8	U	74.1	--
Cell 21	Vadose	Cell21-Square125-S-3-4-20230829	8/29/2023	5.42	J	3.09	U	22.5	--	31.0	--
Cell 21	Vadose	Cell21-Square143-S-3-4-20230829	8/29/2023	3.90	U	2.87	U	13.3	U	20.1	--
Cell 21	Vadose	Cell21-Square139-S-3-4-20230830	8/30/2023	2.98	U	3.11	U	12.5	J	18.6	--
Cell 21	Vadose	Cell21-Square99-S-3-4-20230830	8/30/2023	6.05	J	3.25	U	69.4	--	78.7	--
Cell 21	Vadose	Cell 21-Square 100-S-3-4-20230612	12/6/2023	5.68	JB	2.77	U	21.9	--	30.4	--
Cell 21	Vadose	Cell 21-Square 104-S-3-4-20230612	12/6/2023	7.98	JB	2.66	U	26.1	--	36.7	--
Cell 21	Vadose	Cell 21-Square 98-S-3-4-20230612	12/6/2023	3.90	JB	2.69	U	12.2	J	18.8	--
Cell 21	Vadose	Cell 21-Square 78-S-3-4-20230612	12/6/2023	3.98	JB	2.68	U	13.4	J	20.1	--
Cell 21	Vadose	Cell 21 Square 120-S-3-4-240508	5/8/2024	14.9	U	17.8	J	13.8	J	46.5	J
Cell 21	Vadose	Cell 21 Square 124-S-3-4-240508	5/8/2024	15.0	U	18.1	J	13.5	J	46.6	J
Cell 21	Vadose	Cell 21 Square 126-S-3-4-240508	5/8/2024	14.9	U	16.4	J	16.6	J	47.9	J
Cell 21	Vadose	Cell 21 Square98-S-3-4-240509	5/9/2024	15.0	U F1	24.6	JB	12.5	U	52.1	JB
Cell 21	Vadose	Cell21-Square194-S-3-4-240717	7/17/2024	2.61	U	2.67	U	8.93	U	14.2	--
Cell 21	Vadose	Cell 21 Square 98-S-3-4-240718	7/18/2024	--	--	2.67	U	--	--	2.7	U
Cell 21	Vadose	Cell 21 Square120-S-3-4-240718	7/18/2024	--	--	2.90	U	--	--	2.9	U
Cell 21	Vadose	Cell 21 Square124-S-3-4-240718	7/18/2024	--	--	2.62	U	--	--	2.6	U
Cell 21	Vadose	Cell 21 Square126-S-3-4-240718	7/18/2024	--	--	2.60	U	--	--	2.6	U
Cell 25	Vadose	C25-Sq115-S-3-4-180314	3/14/2018	4.99	UB	0.0728	U	4.99	U	5.0	U
Cell 25	Vadose	C25-Sq192-S-3-4-180314	3/14/2018	4.99	U	0.095	U	4.99	U	5.0	U
Cell 25	Vadose	C25-Sq57-S-3-4-180314	3/14/2018	4.91	UB	0.0797	U	4.91	U	4.9	U
Cell 25	Vadose	C25-Sq86-S-3-4-180314	3/14/2018	4.88	U	0.0782	U	4.88	U	4.9	U
Cell 25	Vadose	Cell25-Square173-S-3-4-180925	9/25/2018	3.42	J	0.0949	U	4.9	U	3.42	--
Cell 25	Vadose	Cell25-Square208-S-3-4-180925	9/25/2018	4.85	J	0.0952	U	2.74	J	7.59	--
Cell 25	Vadose	Cell25-Square68-S-3-4-180925	9/25/2018	6.71	--	0.1	U	3.17	J	9.88	--
Cell 25	Vadose	Cell25-Square9-S-3-4-180925	9/25/2018	4.2	J	0.096	U	4.88	J	9.08	--
Cell 25	Vadose	C25-Square 3-S-2-3	3/26/2019	2.48	J	1.30	U	1.96	U	2.48	--
Cell 25	Vadose	Cell25-square39-S-2-3-190619	6/19/2019	3.00	JB	1.18	U	3.65	J	6.65	--
Cell 25	Vadose	Cell25-Square-6-S-2-3-190724	7/23/2019	2.71	J	0.0268	U	1.97	U	2.71	--
Cell 25	Vadose	Cell25-Square-64-S-2-3-190724	7/23/2019	2	U	0.028	U	2	U	2	--
Cell 25	Vadose	Cell25-Square-85-S-2-3-190724	7/23/2019	2	U	0.0277	U	2	U	2	--
Cell 25	Vadose	Cell25-Square-93-S-2-3-190724	7/23/2019	2.56	J	0.0267	U	1.95	U	2.56	--
Cell 25	Vadose	Cell 25-Square 42-S-2-3-190903	9/3/2019	3.46	J	1.07	U	2.46	J	5.92	--
Cell 25	Vadose	Cell25-Square108-S-2-191203	12/3/2019	34.1	U	0.0646	U	34.1	U	34.1	--
Cell 25	Vadose	Cell25-Square3-S-2-3-200326	3/26/2020	57.9	--	0.561	U	43.1	--	101	J
Cell 25	Vadose	Cell25-Square-162-S-2-3-200429	4/29/2020	3.58	J	0.679	U	12.9	--	16.5	J
Cell 25	Vadose	Cell25-Square-179-S-2-3-200429	4/29/2020	7.34	--	0.742	U	11.7	--	19.0	J
Cell 25	Vadose	Cell25-Square-187-S-2-3-200429	4/29/2020	19.1	--	0.675	U	11.7	--	30.8	J
Cell 25	Vadose	Cell25-Square-85-S-2-3-200429	4/29/2020	1.96	U	0.668	U	5.72	U	5.7	J
Cell 25	Vadose	Cell25-Square106-S-2-3-200625	6/25/2020	2.15	U	0.734	U	6.30	U	6.30	J
Cell 25	Vadose	Cell 25- Square 163-S-3-4-200924	9/24/2020	7.10	J	0.553	U	51.8	--	58.90	J
Cell 25	Vadose	Cell25-Square107-S-2-3-201210	12/10/2020	14.9	U	14.9	U	14.9	U	14.9	U
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	21.0	U	21.0	U	21.0	U	63.0	--
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	27.4	U	27.4	U	27.4	U	82.2	--
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	21.3	U	21.3	U	21.3	U	63.9	--
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	21.6	U	21.6	U	21.6	U	64.8	--
Cell 25	Vadose	Cell25-Square33-S-3-4-211214	12/14/2021	22.9	U	22.9	U	22.9	U	68.7	--
Cell 25	Vadose	Cell25-Square70-S-3-4-211214	12/14/2021	23.3	U	23.3	U	23.3	U	69.9	--
Cell 25	Vadose	Cell25-Square176-S-3-4-211214	12/14/2021	22.8	U	22.8	U	22.8	U	68.4	--
Cell 25	Vadose	Cell25-Square190-S-3-4-211214	12/14/2021	23.0	U	23.0	U	23.0	U	69.0	--
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	21.1	U	21.1	U	21.1	U	63.3	--
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	21.0	U	21.0	U	21.0	U	63.0	--
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	21.1	U	21.1	U	21.1	U	63.3	--
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	21.1	U	21.1	U	21.1	U	63.3	--
Cell 25	Vadose	Cell25-108-S-3-4-220606	6/6/2022	21.2	U	21.2	U	21.2	U	63.6	U
Cell 25	Vadose	Cell25-188-S-3-4-220606	6/6/2022	21.4	U	21.4	U	21.4	U	64.2	U
Cell 25	Vadose	Cell25-26-S-3-4-220606	6/6/2022	21.1	U	21.1	U	21.1	U	63.3	U
Cell 25	Vadose	Cell25-83-S-3-4-220606	6/6/2022	21.2	U	21.2	U	21.2	U	63.6	U
Cell 25	Vadose	Cell25-88-S-3-4-221206	12/6/2022	34.6	U	2.50	U	34.6	U	71.7	--
Cell 25	Vadose	Cell25-114-S-3-4-221207	12/7/2022	39.1	U	2.48	U	39.1	U	80.7	--
Cell 25	Vadose	Cell25-179-S-3-4-221207	12/7/2022	39.2	U	2.49	U	39.2	U	80.9	--
Cell 25	Vadose	Cell25-187-S-3-4-221207	12/7/2022	38.3	U	2.49	U	38.3	U	79.1	--
Cell 25	Vadose	Cell 25-Square 113-S-3-4-20230712	12/7/2023	5.42	JB	2.58	U	21.0	--	29.0	--
Cell 25	Vadose	Cell 25-Square 56-S-3-4-20230712	12/7/2023	5.07	JB	2.71	U	15.5	J	23.3	--
Cell 25	Vadose	Cell 25-Square 184-S-3-4-20230712	12/7/2023	6.6	JB	2.69	U	18.6	--	27.9	--
Cell 25	Vadose	Cell 25-Square 22-S-3-4-20230712	12/7/2023	2.67	JB	2.83	U	10.7	J	16.2	--
Cell 25	Vadose	Cell25-Square81-S-3-4-240509	5/9/2024	14.9	U	22.8	JB	12.5	U	50.2	J
Cell 25	Vadose	Cell25-Square120-S-3-4-240509	5/9/2024	15.0	U	26.3	JB	12.5	U	53.8	JB
Cell 25	Vadose	Cell25-Square151-S-3-4-240509	5/9/2024	14.9	U	27.0	JB	12.5	U	54.4	JB
Cell 25	Vadose	Cell25-Square184-S-3-4-240509	5/9/2024	14.9	U	13.3	JB	12.4	U	40.6	U
Cell 25	Vadose	Cell25-Square151-S-3-4-240718	7/18/2024	--	--	2.57	U	--	--	2.6	U
Cell 25	Vadose	Cell25-Square120-S-3-4-240718	7/18/2024	--	--	3.33	U	--	--	3.3	U
Cell 25	Vadose	Cell25-Square81-S-3-4-240718	7/18/2024	--	--	2.72	U	--	--	2.7	U

Table 1
2018 – 2024 Vadose Zone Analytical Results: TPH
Site Characterization & Soil Remediation Work Plan
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

			Constituent	DRO		GRO		ORO		TPH[a]	
			Units	mg/kg		mg/kg		mg/kg		mg/kg	
			Part 29 Closure Criteria	--		--		--		100	
Landfarm Cell	Zone	Sample ID	Sampling Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 25	Vadose	Cell25-Square184-S-3-4-240718	7/18/2024	--	--	2.90	U	--	--	2.9	U
Cell 26	Vadose	Cell26-Square153-S-3-4-180314	3/14/2018	4.95	U	0.0958	U	4.95	U	5.0	U
Cell 26	Vadose	Cell26-Square185-S-3-4-180314	3/14/2018	4.96	U	0.106	U	4.96	U	5.0	U
Cell 26	Vadose	Cell26-Square22-S-3-4-180314	3/14/2018	5	UB	0.0882	J	5	U	0.0882	--
Cell 26	Vadose	Cell26-Square74-S-3-4-180314	3/14/2018	4.98	U	0.0665	J	4.98	U	0.0665	--
Cell 26	Vadose	Cell26-Square127-S-3-4-180925	9/25/2018	2.54	J	0.0996	U	4.97	U	2.54	--
Cell 26	Vadose	Cell26-Square191-S-3-4-180925	9/25/2018	2.24	J	0.1	U	4.92	U	2.24	--
Cell 26	Vadose	Cell26-Square22-S-3-4-180925	9/25/2018	2.07	J	0.0949	U	5	U	2.07	--
Cell 26	Vadose	Cell26-Square29-S-3-4-180925	9/25/2018	6.89	--	0.0988	U	5.6	--	12.49	--
Cell 26	Vadose	C26-Square 100-S-2-3	3/26/2019	1.99	J	1.14	U	1.96	U	1.99	--
Cell 26	Vadose	Cell26-square26-S-2-3-190619	6/19/2019	2.00	U	2.90	U	2.00	U	2.90	--
Cell 26	Vadose	Cell 26-Square169-S-2-3-190723	7/23/2019	1.99	U	0.0239	U	1.99	U	1.99	--
Cell 26	Vadose	Cell 26-Square69-S-2-3-190723	7/23/2019	2	U	0.0194	U	2	U	2	--
Cell 26	Vadose	Cell26-Square115-S-2-3-190724	7/23/2019	1.97	U	0.0302	U	1.97	U	1.97	--
Cell 26	Vadose	Cell26-Square198-S-2-3-190724	7/23/2019	2.07	J	0.0291	U	1.98	U	2.07	--
Cell 26	Vadose	Cell 26-Square 18-S-2-3-190903	9/3/2019	3.43	J	1.26	U	1.98	U	3.43	--
Cell 26	Vadose	Cell26-Square207-S-2-191203	12/3/2019	33.7	U	0.0631	U	33.7	U	33.7	--
Cell 26	Vadose	Cell26-Square96-S-2-3-200326	3/26/2020	29.8	--	0.584	U	41.2	--	71	J
Cell 26	Vadose	Cell26-Square-110-S-2-3-200429	4/29/2020	5.09	J	0.703	U	10.7	--	15.8	J
Cell 26	Vadose	Cell26-Square-167-S-2-3-200429	4/29/2020	1.95	U	0.0325	U	11.0	--	11.0	J
Cell 26	Vadose	Cell26-Square-169-S-2-3-200429	4/29/2020	23.2	--	0.657	U	17.1	--	40.3	J
Cell 26	Vadose	Cell26-Square-79-S-2-3-200429	4/29/2020	8.09	--	0.733	U	15.7	--	23.8	J
Cell 26	Vadose	Cell26-Square66-S-2-3-200625	6/25/2020	2.23	U	0.745	U	6.51	U	6.51	J
Cell 26	Vadose	Cell 26-Square112-S-3-4-200924	9/24/2020	7.23	J	0.600	U	52.1	--	59.33	J
Cell 26	Vadose	Cell26-Square36-S-2-3-201210	12/10/2020	15.0	U	15.0	U	15.0	U	15.0	U
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	21.1	U	21.1	U	21.1	U	63.3	--
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	21.2	U	21.2	U	21.2	U	63.6	--
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	21.1	U	21.1	U	21.1	U	63.3	--
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	20.9	U	20.9	U	20.9	U	62.7	--
Cell 26	Vadose	Cell26-Square8-S-3-4-211215	12/15/2021	28.2	U	28.2	U	28.2	U	84.6	--
Cell 26	Vadose	Cell26-Square74-S-3-4-211215	12/15/2021	27.0	U	27.0	U	27.0	U	81.0	--
Cell 26	Vadose	Cell26-Square183-S-3-4-211215	12/15/2021	23.1	U	23.1	U	23.1	U	69.3	--
Cell 26	Vadose	Cell26-Square210-S-3-4-211215	12/15/2021	23.4	U	23.4	U	23.4	U	70.2	--
Cell 26	Vadose	Cell26-111-S-3-4-220606	6/6/2022	21.1	U	21.1	U	21.1	U	63.3	U
Cell 26	Vadose	Cell26-168-S-3-4-220606	6/6/2022	21.1	U	21.1	U	21.1	U	63.3	U
Cell 26	Vadose	Cell26-65-S-3-4-220606	6/6/2022	21.0	U	21.0	U	21.0	U	63.0	U
Cell 26	Vadose	Cell26-80-S-3-4-220606	6/6/2022	21.1	U	21.1	U	21.1	U	63.3	U
Cell 26	Vadose	Cell26-79-S-3-4-221207	12/7/2022	38.6	U	2.50	U	38.6	U	79.7	--
Cell 26	Vadose	Cell26-115-S-3-4-221207	12/7/2022	36.9	U	2.51	U	36.9	U	76.3	--
Cell 26	Vadose	Cell26-129-S-3-4-221207	12/7/2022	36.1	U	2.52	U	36.1	U	74.7	--
Cell 26	Vadose	Cell26-198-S-3-4-221207	12/7/2022	39.1	U	2.50	U	39.1	U	80.7	--
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	2.63	U	2.76	U	8.98	U	14.4	--
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	2.54	U	2.64	U	8.67	U	13.9	--
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	3.78	U	2.71	U	12.9	U	19.4	--
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	2.50	U	2.72	U	8.55	U	13.8	--
Cell 26	Vadose	Cell 26-Square 172-S-3-4-20230712	12/7/2023	1.93	JB	2.70	U	9.05	U	13.7	--
Cell 26	Vadose	Cell 26-Square 19-S-3-4-20230712	12/7/2023	1.65	JB	2.60	U	9.65	J	13.9	--
Cell 26	Vadose	Cell 26-Square 54-S-3-4-20230712	12/7/2023	4.22	JB	2.66	U	19.1	--	26.0	--
Cell 26	Vadose	Cell 26-Square 57-S-3-4-20230712	12/7/2023	2.26	JB	2.69	U	9.30	J	14.3	--
Cell 26	Vadose	Cell26-Square41-S-3-4-240509	5/9/2024	14.9	U	13.7	JB	12.5	U	41.1	JB
Cell 26	Vadose	Cell26-Square85-S-3-4-240509	5/9/2024	14.9	U	35.0	JB	12.5	U	62.4	J
Cell 26	Vadose	Cell26-Square151-S-3-4-240509	5/9/2024	15.3	J	34.0	JB	12.5	U	61.8	JB
Cell 26	Vadose	Cell26-Square175-S-3-4-240509	5/9/2024	15.0	U	29.1	JB	12.5	U	56.6	J
Cell 26	Vadose	Cell26-Square85-S-3-4-240719	7/19/2024	--	--	3.35	U	--	--	3.4	U
Cell 26	Vadose	Cell26-Square151-S-3-4-240719	7/19/2024	--	--	2.67	U	--	--	2.7	U
Cell 26	Vadose	Cell26-Square175-S-3-4-240719	7/19/2024	--	--	2.79	U	--	--	2.8	U
Cell 26	Vadose	Cell26-Square41-S-3-4-240719	7/19/2024	--	--	2.82	U	--	--	2.8	U

Notes:

[a] TPH is the sum of detected DRO, GRO, and ORO fractions. If all results are non-detect, the highest non-detect value is presented.

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

2. Detected values highlighted in grey exceed the 19.15.29 NMAC closure criteria for soils impacted by a release.

Acronyms and Abbreviations:

-- = not applicable or available
DRO = diesel-range organics
GRO = gasoline-range organics
ID = identification
mg/kg = milligrams per kilogram
MQL = method quantitation limit
MS/MSD = matrix spike/matrix spike duplicate
NMAC = New Mexico Administrative Code
ORO = oil-range organics
SDL = sample detection limit
TPH = total petroleum hydrocarbons

Qualifiers:

B = The compound was found in the blank and the sample.
F1 = MS and/or MSD recovery is outside acceptance limits.
F2 = MS/MSD relative percent difference exceeds control limits.
J = Result is less than the MQL but greater than or equal to the SDL, and the concentration is an estimated value.
U = Analyte was not detected at or above the SDL.

Table 2
2018 – 2024 Vadose Zone Analytical Results: BTEX
Site Characterization & Soil Remediation Work Plan
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

ARCADIS

		Constituent	Benzene		Toluene		Ethylbenzene		Xylenes		Total BTEX[a]	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Part 29 Closure Criteria	10		--		--		--		50	
Landfarm Cell	Zone	Sample ID	Sampling Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	C17-Sq110-S-3-4-180313	3/13/2018	0.00531	U	0.00531	U	0.00531	U	0.00531	U	0.00531	U
Cell 17	Vadose	C17-Sq118-S-3-4-180313	3/13/2018	0.00453	U	0.00453	U	0.00453	U	0.00453	U	0.00453	U
Cell 17	Vadose	C17-Sq201-S-3-4-180313	3/13/2018	0.00474	U	0.00474	U	0.00474	U	0.00474	U	0.00474	U
Cell 17	Vadose	C17-Sq45-S-3-4-180313	3/13/2018	0.00503	--	0.00503	--	0.00503	--	0.00503	--	0.02012	--
Cell 17	Vadose	Cell17-Square103-S-3-4-180927	9/27/2018	0.00527	U	0.00527	U	0.00527	U	0.00527	U	0.00527	U
Cell 17	Vadose	Cell17-Square106-S-3-4-180927	9/27/2018	0.00557	U	0.00557	U	0.00557	U	0.00557	U	0.00557	U
Cell 17	Vadose	Cell17-Square66-S-3-4-180927	9/27/2018	0.00535	U	0.00535	U	0.00535	U	0.00535	U	0.00535	U
Cell 17	Vadose	Cell17-Square99-S-3-4-180927	9/27/2018	0.00529	U	0.00529	U	0.00529	U	0.00529	U	0.00529	U
Cell 17	Vadose	C17-Square 167-S-2-3	3/26/2019	0.000546	U	0.00306	J	0.000883	U	0.000979	U	0.00306	J
Cell 17	Vadose	Cell 17-square131-S-2-3-190618	6/18/2019	0.000729	U	0.0016	U	0.00118	U	0.00131	U	0.00160	U
Cell 17	Vadose	Cell 17-Square 49-S-2-3-190903	9/3/2019	0.000358	U	0.000534	U	0.000326	U	0.00101	U	0.00101	U
Cell 17	Vadose	Cell17-Square204-S-2-191202	12/2/2019	0.000630	U H	0.00138	U H	0.00102	U H	0.00113	U H	0.00138	U H
Cell 17	Vadose	Cell17-Square 113-S-3-4-200114	1/14/2020	0.000631	U H	0.00138	U H	0.00102	U H	0.00113	U H	0.00138	U H
Cell 17	Vadose	Cell17-Square 175-S-3-4-200114	1/14/2020	0.000714	U H	0.00156	U H	0.00116	U H	0.00128	U H	0.00156	U H
Cell 17	Vadose	Cell17-Square 207-S-3-4-200114	1/14/2020	0.000692	U H	0.00152	U H	0.00112	U H	0.00124	U H	0.00152	U H
Cell 17	Vadose	Cell17-Square 45-S-3-4-200114	1/14/2020	0.000556	U H	0.00122	U H	0.0009	U H	0.000997	U H	0.00122	U H
Cell 17	Vadose	Cell17-Square200-S-2-3-200326	3/26/2020	0.000661	U	0.00279	J	0.00107	U	0.00119	U	0.00279	J
Cell 17	Vadose	Cell17-Square-129-S-2-3-200429	4/29/2020	0.000748	U	0.00164	U	0.00121	U	0.00134	U	0.00164	U
Cell 17	Vadose	Cell17-Square-190-S-2-3-200429	4/29/2020	0.000819	U	0.00179	U	0.00133	U	0.00147	U	0.00179	U
Cell 17	Vadose	Cell17-Square-37-S-2-3-200429	4/29/2020	0.000772	U	0.00169	U	0.00125	U	0.00138	U	0.00169	U
Cell 17	Vadose	Cell17-Square-91-S-2-3-200429	4/29/2020	0.000738	U	0.00162	U	0.00119	U	0.00132	U	0.00162	U
Cell 17	Vadose	Cell17-Square46-S-2-3-200625	6/25/2020	0.000738	U	0.00162	U	0.00120	U	0.00132	U	0.00162	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	8/6/2020	0.000703	U	0.00154	U	0.00114	U	0.00126	U	0.00154	U
Cell 17	Vadose	Cell17-Square152-S-2-3-200806	8/6/2020	0.000683	U	0.0015	U	0.00111	U	0.00123	U	0.0015	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	8/6/2020	0.000748	U	0.00164	U	0.00121	U	0.00134	U	0.00164	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	8/6/2020	0.000924	U	0.00202	U	0.0015	U	0.00166	U	0.00202	U
Cell 17	Vadose	Cell 17-Square 24-S-3-4-200924	9/24/2020	0.000659	U	0.00144	U	0.00107	U	0.00118	U	0.00144	U
Cell 17	Vadose	Cell17-Square179-S-2-3-201210	12/10/2020	0.000207	U	0.00238	J	0.000661	J	0.00352	--	0.006561	J
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	0.000551	U	0.000787	U	0.000393	U	0.000437	U	0.000787	U
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	0.000619	U	0.000884	U	0.000442	U	0.000491	U	0.000884	U
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	0.000578	U	0.000826	U	0.000413	U	0.000459	U	0.000826	U
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	0.000612	U	0.000874	U	0.000437	U	0.000485	U	0.000874	U
Cell 17	Vadose	Cell17-Square16-S-3-4-211213	12/13/2021	0.000225	U	0.00109	U	0.000365	U	0.00107	U	0.00109	U
Cell 17	Vadose	Cell17-Square116-S-3-4-211213	12/13/2021	0.000222	U	0.00107	U	0.000361	U	0.00106	U	0.00107	U
Cell 17	Vadose	Cell17-Square120-S-3-4-211213	12/13/2021	0.000219	U	0.00106	U	0.000356	U	0.00104	U	0.00106	U
Cell 17	Vadose	Cell17-Square130-S-3-4-211213	12/13/2021	0.000246	U	0.00119	U	0.000399	U	0.00117	U	0.00119	U
Cell 17	Vadose	Cell17-Square 26-S-3-4-220124	1/24/2022	0.000619	U	0.000884	U	0.000442	U	0.000491	U	0.000884	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.000618	U	0.000882	U	0.000441	U	0.000490	U	0.000882	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.000569	U	0.000812	U	0.000406	U	0.000451	U	0.000812	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.000570	U	0.000814	U	0.000407	U	0.000452	U	0.000814	U
Cell 17	Vadose	Cell17-114-S-3-4-220607	6/7/2022	0.000209	U	0.00101	U	0.000338	U	0.000993	U	0.00101	U
Cell 17	Vadose	Cell17-154-S-3-4-220607	6/7/2022	0.000209	U	0.00101	U	0.000338	U	0.000993	U	0.00101	U
Cell 17	Vadose	Cell17-178-S-3-4-220607	6/7/2022	0.000208	U	0.00101	U	0.000338	U	0.000991	U	0.00101	U
Cell 17	Vadose	Cell17-59-S-3-4-220607	6/7/2022	0.000207	U	0.001	U	0.000336	U	0.000985	U	0.001	U
Cell 17	Vadose	Cell17-6-S-3-4-221206	12/6/2022	0.000736	U	0.00192	U	0.000668	U	0.000904	U	0.00192	U
Cell 17	Vadose	Cell17-45-S-3-4-221206	12/6/2022	0.000734	U	0.00192	U	0.000666	U	0.000902	U	0.00192	U
Cell 17	Vadose	Cell17-199-S-3-4-221206	12/6/2022	0.000726	U	0.00189	U	0.000658	U	0.000891	U	0.00189	U
Cell 17	Vadose	Cell17-203-S-3-4-221206	12/6/2022	0.000730	U	0.00190	U	0.000662	U	0.000896	U	0.0019	U
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	0.000494	U	0.00156	U	0.000380	U	0.000798	U	0.00156	U
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	0.000493	U	0.00155	U	0.000379	U	0.000797	U	0.00155	U
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	0.000493	U	0.00155	U	0.000379	U	0.000797	U	0.00155	U
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	0.000493	U	0.00155	U	0.000379	U	0.000797	U	0.00155	U
Cell 17	Vadose	Cell17-Square118-S-3-4-20230830	8/30/2023	0.000535	U	0.00169	U	0.000411	U	0.000865	U	0.00169	U
Cell 17	Vadose	Cell17-Square141-S-3-4-20230830	8/30/2023	0.000591	U	0.00186	U	0.000454	U	0.000955	U	0.00186	U
Cell 17	Vadose	Cell17-Square51-S-3-4-20230830	8/30/2023	0.000538	U	0.00170	U	0.000414	U	0.000871	U	0.0017	U
Cell 17	Vadose	Cell17-Square56-S-3-4-20230830	8/30/2023	0.000513	U	0.00162	U	0.000394	U	0.000830	U	0.00162	U
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	0.000379	U	0.00120	U	0.000302	U	0.000429	U	0.0012	U
Cell 17	Vadose	Cell 17-Square 183-S-3-4-20230612	12/6/2023	0.000396	U	0.00126	U	0.000316	U	0.000449	U	0.00126	U
Cell 17	Vadose	Cell 17-Square 205-S-3-4-20230612	12/6/2023	0.000484	U	0.00153	U	0.000385	U	0.000548	U	0.00153	U
Cell 17	Vadose	Cell 17-Square 48-S-3-4-20230612	12/6/2023	0.000404	U	0.00128	U	0.000322	U	0.000457	U	0.00128	U
Cell 17	Vadose	Cell 17-Square1-S-3-4-20230612	12/6/2023	0.000440	U	0.00139	U	0.000350	U	0.000498	U	0.00139	U
Cell 17	Vadose	Cell17-Square2-S-3-4-240122	1/22/2024	0.386	U	1.22	U	0.307	U	0.436	U	1.22	U
Cell 17	Vadose	Cell17-Square22-S-3-4-240122	1/22/2024	0.385	U	1.22	U	0.306	U	0.436	U	1.22	U
Cell 17	Vadose	Cell17-Square47-S-3-4-240122	1/22/2024	0.38	U	1.20	U	0.303	U	0.430	U	1.20	U
Cell 17	Vadose	Cell 17-Square 27-S-3-4-240123	1/23/2024	0.383	U	1.21	U	0.304	U	0.433	U	1.21	U
Cell 17	Vadose	Cell 17-Square 49-S-3-4-240123	1/23/2024	0.386	U	1.22	U	0.307	U	0.436	U	1.22	U
Cell 17	Vadose	Cell 17-Square 69-S-3-4-240123	1/23/2024	0.384	U	1.22	U	0.306	U	0.435	U	1.22	U
Cell 17	Vadose	Cell17-Square64-S-3-4-240716	7/16/2024	0.000381	U	0.00121	U	0.000303	U	0.000431	U	0.00121	U
Cell 17	Vadose	Cell17-Square44-S-3-4-240716	7/16/2024	0.000384	U	0.00122	U	0.000306	U	0.000435	U	0.00122	U
Cell 17	Vadose	Cell17-Square24-S-3-4-240716	7/16/2024	0.000379	U	0.00120	U	0.000302	U	0.000429	U	0.00120	U
Cell 17	Vadose	Cell17-Square4-S-3-4-240716	7/16/2024	0.000384	U	0.00122	U	0.000306	U	0.000435	U	0.00122	U
Cell 17	Vadose	Cell17-Square6-S-3-4-240717	7/17/2024	0.000385	U	0.00122	U	0.000306	U	0.000436	U	0.00122	U
Cell 18	Vadose	C18-Sq125-S-3-4-180313	3/13/2018	0.00461	--	0.00461	--	0.00461	--	0.00461	--	0.01844	--
Cell 18	Vadose	C18-Sq203-S-3-4-180313	3/13/2018	0.00336	J	0.00490	--	0.00490	--	0.00490	--	0.01806	J
Cell 18	Vadose	C18-Sq40-S-3-4-180313	3/13/2018	0.00457	--	0.00457	--	0.00457	--	0.00457	--	0.01828	--
Cell 18	Vadose	C18-Sq52-S-3-4-180313	3/13/2018	0.00485	U	0.00485	U	0.00485	U	0.00485	U	0.00485	U
Cell 18	Vadose	Cell18-Square154-S-3-4-180927	9/27/2018	0.00517	U	0.00517	U	0.00517	U	0.00517	U	0.00517	U
Cell 18	Vadose	Cell18-Square58-S-3-4-180927	9/27/2018	0.00604	U	0.00604	U	0.00604	U	0.00604	U	0.00604	U
Cell 18	Vadose	Cell18-Square71-S-3-4-180927	9/27/2018	0.00529	U	0.00529	U	0.00529	U	0.00529	U	0.00529	U
Cell 18	Vadose	Cell18-Square8-S-3-4-180927	9/27/2018	0.00562	U	0.00562	U	0.00562	U	0.00562	U	0.00562	U
Cell 18	Vadose	C18-Square 120-S-2-3	3/26/2019	0.000598	U	0.00670	--	0.000968	U	0.001070	U	0.00670	--
Cell 18	Vadose	Cell 18-square82-S-2-3-190618	6/18/2019	0.000816	U	0.00179	U	0.00132	U	0.00146	U	0.00179	U
Cell 18	Vadose	Cell 18-Square 20-S-2-3-190903	9/3/2019	0.000321	U	0.00048	U	0.000293	U	0.000912	U	0.000912	U
Cell 18	Vadose	Cell18-Square179-S-2-191202	12/2/2019	0.000619	U H	0.00136	U H	0.00100	U H	0.00111	U H	0.00136	U H
Cell 18	Vadose	Cell18-Square 133-S-3-4-200114	1/14/2020	0.000661	U H	0.00145	U H	0.00107	U H	0.00119	U H	0.00145	U H
Cell 18	Vadose	Cell18-Square 181-S-3-4-200114	1/14/2020	0.000662	U H	0.00145	U H	0.00107	U H	0.00119	U H	0.00145	U H
Cell 18	Vadose	Cell18-Square 83-S-3-4-200114	1/14/2020	0.000697	U H	0.00153	U H	0.00113	U H	0.00125	U H	0.00153	U H
Cell 18	Vadose	Cell18-Square 92-S-3-4-200114	1/14/2020	0.000777	U H	0.0017	U H	0.00126	U H	0.00139	U H	0.00139	U H
Cell 18	Vadose	Cell18-Square163-S-2-3-200326	3/26/2020	0.00372	J	0.00994	--	0.00107	U	0.00241	J	0.01607	J
Cell 18	Vadose	Cell18-Square-202-S-2-3-200428	4/28/2020	0.000916	U	0.00389	J	0.00148	U	0.00164	U	0.00389	J
Cell 18	Vadose	Cell18-Square-35-S-2-3-200428	4/28/2020	0.000811	U	0.00178	U	0.00131	U	0.00146	U	0.00178	U
Cell 18	Vadose	Cell18-Square-55-S-2-3-200428	4/28/2020	0.000778	U	0.00170	U	0.00126	U	0.00140	U	0.0017	U
Cell 18	Vadose	Cell18-Square-59-S-2-3-200428	4/28/2020	0.000842	U	0.00371	J	0.00136	U	0.00151	U	0.00371	J
Cell 18	Vadose	Cell18-Square31-S-2-3-200625	6/25/2020	0.000851	U	0.00186	U	0.00138	U	0.00153	U	0.00186	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	8/6/2020	0.000731	U	0.0016	U	0.00118	U	0.00131	U	0.0016	U

Table 2
2018 – 2024 Vadose Zone Analytical Results: BTEX
Site Characterization & Soil Remediation Work Plan
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

		Constituent	Benzene		Toluene		Ethylbenzene		Xylenes		Total BTEX[a]	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Part 29 Closure Criteria	10		--		--		--		50	
Landfarm Cell	Zone	Sample ID	Sampling Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	8/6/2020	0.000835	U	0.00183	U	0.00135	U	0.0015	U	0.00183	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	8/6/2020	0.000708	U	0.00155	U	0.00115	U	0.00127	U	0.00155	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	8/6/2020	0.000798	U	0.00175	U	0.00129	U	0.00143	U	0.00175	U
Cell 18	Vadose	Cell 18-Square 131-S-3-4-200924	9/24/2020	0.000663	U	0.00145	U	0.00107	U	0.00119	U	0.00145	U
Cell 18	Vadose	Cell18-Square74-S-2-3-201210	12/10/2020	0.000205	U	0.00171	J	0.000526	J	0.00212	--	0.004356	J
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	0.000569	U	0.000812	U	0.000406	U	0.000451	U	0.000812	U
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	0.000566	U	0.000808	U	0.000404	U	0.000449	U	0.000808	U
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	0.000570	U	0.000814	U	0.000407	U	0.000452	U	0.000814	U
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	0.000597	U	0.000852	U	0.000426	U	0.000473	U	0.000852	U
Cell 18	Vadose	Cell18-Square14-S-3-4-211213	12/13/2021	0.000275	J	0.00161	J	0.000382	U	0.00112	U	0.001885	J
Cell 18	Vadose	Cell18-Square22-S-3-4-211213	12/13/2021	0.000275	U	0.00133	U	0.000446	U	0.00131	U	0.00133	U
Cell 18	Vadose	Cell18-Square156-S-3-4-211213	12/13/2021	0.000227	U	0.00110	U	0.000368	U	0.00108	U	0.0011	U
Cell 18	Vadose	Cell18-Square175-S-3-4-211213	12/13/2021	0.000224	U	0.00108	U	0.000363	U	0.00107	U	0.00108	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.000532	U	0.000760	U	0.000380	U	0.000422	U	0.00076	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.000531	U	0.000759	U	0.000379	U	0.000422	U	0.000759	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.000573	U	0.000818	U	0.000409	U	0.000455	U	0.000818	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.000621	U	0.000888	U	0.000444	U	0.000493	U	0.000888	U
Cell 18	Vadose	Cell18-133-S-3-4-220607	6/7/2022	0.000207	U	0.001	U	0.000336	U	0.000985	U	0.001	U
Cell 18	Vadose	Cell18-195-S-3-4-220607	6/7/2022	0.000207	U	0.001	U	0.000336	U	0.000987	U	0.001	U
Cell 18	Vadose	Cell18-198-S-3-4-220607	6/7/2022	0.000207	U	0.000998	U	0.000335	U	0.000983	U	0.000998	U
Cell 18	Vadose	Cell18-36-S-3-4-220607	6/7/2022	0.000209	U	0.00101	U	0.000338	U	0.000993	U	0.00101	U
Cell 18	Vadose	Cell18-83-S-3-4-221206	12/6/2022	0.000730	U	0.00190	U	0.000662	U	0.000896	U	0.0019	U
Cell 18	Vadose	Cell18-92-S-3-4-221206	12/6/2022	0.000736	U	0.00192	U	0.000668	U	0.000904	U	0.00192	U
Cell 18	Vadose	Cell18-133-S-3-4-221206	12/6/2022	0.000740	U	0.00193	U	0.000672	U	0.000909	U	0.00193	U
Cell 18	Vadose	Cell18-181-S-3-4-221206	12/6/2022	0.000730	U	0.00190	U	0.000662	U	0.000896	U	0.0019	U
Cell 18	Vadose	Cell 18-Square 184-S-3-4-20230512	12/5/2023	0.000417	U	0.00132	U	0.000332	U	0.000472	U	0.00132	U
Cell 18	Vadose	Cell 18-Square 114-S-3-4-20230612	12/6/2023	0.000405	U	0.00128	U	0.000322	U	0.000458	U	0.00128	U
Cell 18	Vadose	Cell 18-Square 13-S-3-4-20230612	12/6/2023	0.000411	U	0.00130	U	0.000327	U	0.000465	U	0.0013	U
Cell 18	Vadose	Cell 18-Square 42-S-3-4-20230612	12/6/2023	0.000410	U	0.00130	U	0.000326	U	0.000464	U	0.0013	U
Cell 18	Vadose	Cell 18-Square 21-S-3-4-240123	1/23/2024	0.383	U	1.21	U	0.305	U	0.434	U	1.21	U
Cell 18	Vadose	Cell18-Square140-S-3-4-240717	7/17/2024	0.000382	U	0.00121	U	0.000304	U	0.000432	U	0.00121	U
Cell 18	Vadose	Cell18-Square120-S-3-4-240717	7/17/2024	0.000382	U	0.00121	U	0.000304	U	0.000432	U	0.00121	U
Cell 18	Vadose	Cell18-Square142-S-3-4-240717	7/17/2024	0.000380	U	0.00120	U	0.000303	U	0.000430	U	0.00120	U
Cell 18	Vadose	Cell18-Square63-S-3-4-240717	7/17/2024	0.000381	U	0.00121	U	0.000303	U	0.000431	U	0.00121	U
Cell 19	Vadose	C19-Sq169-S-3-4-180313	3/13/2018	0.00689	U	0.00689	U	0.00689	U	0.00689	U	0.00689	U
Cell 19	Vadose	C19-Sq183-S-3-4-180313	3/13/2018	0.00468	U	0.00468	U	0.00468	U	0.00468	U	0.00468	U
Cell 19	Vadose	C19-Sq193-S-3-4-180313	3/13/2018	0.00498	U	0.00498	U	0.00498	U	0.00498	U	0.00498	U
Cell 19	Vadose	C19-Sq52-S-3-4-180313	3/13/2018	0.00448	U	0.00448	U	0.00448	U	0.00448	U	0.00448	U
Cell 19	Vadose	Cell19-Square198-S-3-4-180926	9/26/2018	0.00514	U	0.00514	U	0.00514	U	0.00514	U	0.00514	U
Cell 19	Vadose	Cell19-Square96-S-3-4-180926	9/26/2018	0.00504	U	0.00504	U	0.00504	U	0.00504	U	0.00504	U
Cell 19	Vadose	Cell19-Square56-S-3-4-180927	9/27/2018	0.00534	U	0.00534	U	0.00534	U	0.00534	U	0.00534	U
Cell 19	Vadose	Cell19-Square98-S-3-4-180927	9/27/2018	0.00538	U	0.00538	U	0.00538	U	0.00538	U	0.00538	U
Cell 19	Vadose	C19-Square 183-S-2-3	3/26/2019	0.000609	U	0.00277	J	0.000986	U	0.001090	U	0.00277	J
Cell 19	Vadose	Cell 19-square173-S-2-3-190618	6/18/2019	0.000711	U	0.00156	U	0.00115	U	0.00128	U	0.00156	U
Cell 19	Vadose	Cell19-Square132-S-2-3-190723	7/23/2019	0.000574	U	0.00126	U	0.000929	U	0.00103	U	0.00126	U
Cell 19	Vadose	Cell 19-Square156-S-2-3-190723	7/23/2019	0.000453	U	0.000991	U	0.000733	U	0.000812	U	0.00099	U
Cell 19	Vadose	Cell 19-Square184-S-2-3-190723	7/23/2019	0.000516	U	0.00113	U	0.000836	U	0.000926	U	0.00113	U
Cell 19	Vadose	Cell19-Square23-S-2-3-1907233	7/23/2019	0.000507	U H	0.00111	U H	0.000821	U H	0.00091	U H	0.00111	U H
Cell 19	Vadose	Cell 19-Square 197-S-2-3-190903	9/3/2019	0.00032	U	0.000478	U	0.000291	U	0.000908	U	0.000908	U
Cell 19	Vadose	Cell19-Square83-S-2-191202	12/2/2019	0.000571	U H	0.00125	U H	0.000925	U H	0.00102	U H	0.00125	U H
Cell 19	Vadose	Cell19-Square-105-S-3-4-200115	1/15/2020	0.0655	H	0.0017	U H	0.00126	U H	0.00139	U H	0.0655	U H
Cell 19	Vadose	Cell19-Square-204-S-3-4-200115	1/15/2020	0.0496	H	0.00158	U H	0.00117	U H	0.00129	U H	0.0496	U H
Cell 19	Vadose	Cell19-Square-82-S-3-4-200115	1/15/2020	0.0591	H	0.00191	U H	0.00141	U H	0.00157	U H	0.0591	U H
Cell 19	Vadose	Cell19-Square-93-S-3-4-200115	1/15/2020	0.0216	H	0.00151	U H	0.00111	U H	0.00123	U H	0.0216	U H
Cell 19	Vadose	Cell19-Square144-S-2-3-200326	3/26/2020	0.00226	J	0.00575	--	0.000872	U	0.00156	J	0.00957	J
Cell 19	Vadose	Cell19-Square-171-S-2-3-200427	4/27/2020	0.000684	U	0.00548	--	0.00111	U	0.00248	J	0.00796	J
Cell 19	Vadose	Cell19-Square-154-S-2-3-200428	4/28/2020	0.000762	U	0.00167	U	0.00123	U	0.00137	U	0.00167	U
Cell 19	Vadose	Cell19-Square-23-S-2-3-200428	4/28/2020	0.000787	U	0.00172	U	0.00127	U	0.00141	U	0.00172	U
Cell 19	Vadose	Cell19-Square-93-S-2-3-200428	4/28/2020	0.000812	U	0.00178	U	0.00132	U	0.00146	U	0.00178	U
Cell 19	Vadose	Cell19-Square82-S-2-3-200625	6/25/2020	0.000956	U	0.00209	U	0.00155	U	0.00171	U	0.00209	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	8/6/2020	0.000739	U	0.00162	U	0.0012	U	0.00133	U	0.00162	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	8/7/2020	0.000759	U	0.00166	U	0.00123	U	0.00136	U	0.00166	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	8/7/2020	0.00155	J	0.00155	U	0.00115	U	0.00127	U	0.00155	J
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	8/7/2020	0.00285	J	0.00169	U	0.00125	U	0.00139	U	0.00285	J
Cell 19	Vadose	Cell 19-Square 156-S-3-4-200924	9/24/2020	0.000695	U	0.00152	U	0.00113	U	0.00125	U	0.00152	U
Cell 19	Vadose	Cell19-Square79-S-2-3-201210	12/10/2020	0.000207	U	0.00175	J	0.00052	J	0.00187	--	0.00414	J
Cell 19	Vadose	Cell19-Square47-S-3-4-210618	6/18/2021	0.000823	J	0.000994	U	0.000334	U	0.00098	U	0.000823	J
Cell 19	Vadose	Cell19-Square73-S-3-4-210618	6/18/2021	0.000629	J	0.00099	U	0.000332	U	0.00098	U	0.000629	J
Cell 19	Vadose	Cell19-Square17-S-3-4-210618	6/18/2021	0.000206	U	0.000996	U	0.000334	U	0.00098	U	0.000996	U
Cell 19	Vadose	Cell19-Square168-S-3-4-210618	6/18/2021	0.000205	U	0.00099	U	0.000332	U	0.00098	U	0.00099	U
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	0.000606	U	0.000865	U	0.000433	U	0.000481	U	0.000865	U
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	0.000586	U	0.000836	U	0.000418	U	0.000465	U	0.000836	U
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	0.000619	U	0.000884	U	0.000442	U	0.000491	U	0.000884	U
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	0.000618	U	0.000882	U	0.000441	U	0.000490	U	0.000882	U
Cell 19	Vadose	Cell19-Square83-S-3-4-211213	12/13/2021	0.000231	U	0.00112	U	0.000375	U	0.00110	U	0.00112	U
Cell 19	Vadose	Cell19-Square144-S-3-4-211213	12/13/2021	0.000218	U	0.00105	U	0.000353	U	0.00104	U	0.00105	U
Cell 19	Vadose	Cell19-Square27-S-3-4-211214	12/14/2021	0.000222	U	0.00116	J	0.000360	U	0.00106	U	0.00116	J
Cell 19	Vadose	Cell19-Square128-S-3-4-211214	12/14/2021	0.000213	U	0.00103	U	0.000345	U	0.00101	U	0.00103	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.000615	U	0.000879	U	0.000439	U	0.000488	U	0.000879	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.000571	U	0.000815	U	0.000408	U	0.000453	U	0.000815	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.000587	U	0.000838	U	0.000419	U	0.000466	U	0.000838	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.000529	U	0.000756	U	0.000378	U	0.000420	U	0.000756	U
Cell 19	Vadose	Cell19-115-S-3-4-220607	6/7/2022	0.000208	U	0.00101	U	0.000338	U	0.000991	U	0.00101	U
Cell 19	Vadose	Cell19-149-S-3-4-220607	6/7/2022	0.000208	U	0.00101	U	0.000338	U	0.000991	U	0.00101	U
Cell 19	Vadose	Cell19-203-S-3-4-220607	6/7/2022	0.000207	U	0.001	U	0.000336	U	0.000985	U	0.001	U
Cell 19	Vadose	Cell19-96-S-3-4-220607	6/7/2022	0.000212	U	0.00102	U	0.000343	U	0.00101	U	0.00102	U
Cell 19	Vadose	Cell19-82-S-3-4-221205	12/5/2022	0.000729	U	0.00190	U	0.000661	U	0.000895	U	0.0019	U
Cell 19	Vadose	Cell19-84-S-3-4-221205	12/5/2022	0.000733	U	0.00191	U	0.000665	U	0.000900	U	0.00191	U
Cell 19	Vadose	Cell19-93-S-3-4-221205	12/5/2022	0.000729	U	0.0019	U	0.000661	U	0.000895	U	0.0019	U
Cell 19	Vadose	Cell19-204-S-3-4-221205	12/5/2022	0.000734	U	0.00192	U	0.000666	U	0.000902	U	0.00192	U
Cell 19	Vadose	Cell19-Square186-S-3-4-20230831	8/31/2023	0.000538	U	0.00183	J	0.000414	U	0.000870	U	0.00183	J
Cell 19	Vadose	Cell19-Square35-S-3-4-20230831	8/31/2023	0.000545	U	0.00531	J	0.000419	U	0.000882	U	0.00531	J
Cell 19	Vadose	Cell19-Square51-S-3-4-20230831	8/31/2023	0.000520	U	0.00508	J	0.000400	U	0.000841	U	0.00508	J
Cell 19	Vadose	Cell19-Square97-S-3-4-20230831	8/31/2023	0.00055	U	0.0058	--	0.000423	U	0.00089	U	0.0058	--

Table 2
2018 – 2024 Vadose Zone Analytical Results: BTEX
Site Characterization & Soil Remediation Work Plan
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

		Constituent	Benzene		Toluene		Ethylbenzene		Xylenes		Total BTEX[a]	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Part 29 Closure Criteria	10		--		--		--		50	
Landfarm Cell	Zone	Sample ID	Sampling Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	0.000384	U	0.00122	U	0.000306	U	0.000435	U	0.00122	U
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	0.000381	U	0.00121	U	0.000303	U	0.000431	U	0.00121	U
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	0.000381	U	0.00121	U	0.000303	U	0.000431	U	0.00121	U
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	0.000379	U	0.00120	U	0.000302	U	0.00043	U	0.0012	U
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	0.000379	U	0.00120	U	0.000301	U	0.00043	U	0.0012	U
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	0.000381	U	0.00121	U	0.000303	U	0.00043	U	0.00121	U
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	0.000379	U	0.00120	U	0.000302	U	0.000429	U	0.0012	U
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	0.000379	U	0.00120	U	0.000301	U	0.00043	U	0.0012	U
Cell 19	Vadose	Cell 19-Square 119-S-3-4-20230512	12/5/2023	0.000405	U	0.00128	U	0.000322	U	0.000458	U	0.00128	U
Cell 19	Vadose	Cell 19-Square 31-S-3-4-20230512	12/5/2023	0.000412	U	0.00130	U	0.000328	U	0.000466	U	0.0013	U
Cell 19	Vadose	Cell 19-Square 71-S-3-4-20230512	12/5/2023	0.000397	U	0.00126	U	0.000316	U	0.000450	U	0.00126	U
Cell 19	Vadose	Cell 19-Square 75-S-3-4-20230512	12/5/2023	0.000409	U	0.00130	U	0.000326	U	0.000463	U	0.0013	U
Cell 19	Vadose	Cell19-Square140-S-3-4-240124	1/24/2024	0.381	U	1.21	U	0.303	U	0.431	U	1.21	U
Cell 19	Vadose	Cell19-Square120-S-3-4-240124	1/24/2024	0.382	U	1.21	U	0.304	U	0.432	U	1.21	U
Cell 19	Vadose	Cell19-Square118-S-3-4-240124	1/24/2024	0.383	U	1.21	U	0.304	U	0.433	U	1.21	U
Cell 19	Vadose	Cell19-Square98-S-3-4-240124	1/24/2024	0.521	J	10.2	--	1.56	--	7.56	--	19.8	J
Cell 20	Vadose	C20-Sq81-S-3-4-180313	3/13/2018	0.00556	--	0.00556	--	0.00556	--	0.00556	--	0.02224	--
Cell 20	Vadose	Cell20-Square110-S-3-4-180314	3/14/2018	0.00634	U	0.00634	U	0.00634	U	0.00634	U	0.00634	U
Cell 20	Vadose	Cell20-Square136-S-3-4-180314	3/14/2018	0.00471	U	0.00471	U	0.00471	U	0.00471	U	0.00471	U
Cell 20	Vadose	Cell20-Square161-S-3-4-180314	3/14/2018	0.00507	U	0.00507	U	0.00507	U	0.00507	U	0.00507	U
Cell 20	Vadose	Cell20-Square118-S-3-4-180926	9/26/2018	0.00501	U	0.00501	U	0.00501	U	0.00501	U	0.00501	U
Cell 20	Vadose	Cell20-Square204-S-3-4-180926	9/26/2018	0.00553	U	0.00553	U	0.00553	U	0.00553	U	0.00553	U
Cell 20	Vadose	Cell20-Square59-S-3-4-180926	9/26/2018	0.00465	U	0.00465	U	0.00465	U	0.00465	U	0.00465	U
Cell 20	Vadose	Cell20-Square64-S-3-4-180926	9/26/2018	0.00561	U	0.00561	U	0.00561	U	0.00561	U	0.00561	U
Cell 20	Vadose	C20-Square 157-S-2-3	3/26/2019	0.000598	U	0.00131	U	0.000968	U	0.001070	U	0.00131	U
Cell 20	Vadose	Cell 20-square79-S-2-3-190618	6/18/2019	0.000495	U	0.00108	U	0.000801	U	0.000887	U	0.00108	U
Cell 20	Vadose	Cell20-Square102-S-2-3-190723	7/23/2019	0.000631	U H H3	0.00138	U H H3	0.00102	U H H3	0.00113	U H H3	0.00138	U H H3
Cell 20	Vadose	Cell20-Square179-S-2-3-190723	7/23/2019	0.000666	U H	0.00146	U H	0.00108	U H	0.00119	U H	0.00146	U H
Cell 20	Vadose	Cell20-Square193-S-2-3-190723	7/23/2019	0.000597	U H	0.00131	U H	0.000966	U H	0.00107	U H	0.00131	U H
Cell 20	Vadose	Cell20-Square96-S-2-3-190723	7/23/2019	0.000355	U H	0.000777	U H	0.000574	U H	0.000636	U H	0.00078	U H
Cell 20	Vadose	Cell 20-Square 85-S-2-3-190903	9/3/2019	0.000309	U	0.000462	U	0.000282	U	0.000877	U	0.000877	U
Cell 20	Vadose	Cell20-Square 42-S-2-3-191202	12/2/2019	0.000630	U H	0.00138	U H	0.00102	U H	0.00113	U H	0.00138	U H
Cell 20	Vadose	Cell20-Square141-S-2-3-200326	3/26/2020	0.00716	--	0.0182	--	0.00115	J	0.0045	J	0.03101	--
Cell 20	Vadose	Cell20-Square-105-S-2-3-200427	4/27/2020	0.000740	U	0.00570	J	0.00120	U	0.00259	J	0.00829	J
Cell 20	Vadose	Cell20-Square-187-S-2-3-200427	4/27/2020	0.000761	U	0.0111	--	0.00123	U	0.00344	J	0.01454	J
Cell 20	Vadose	Cell20-Square-91-S-2-3-200427	4/27/2020	0.000779	U	0.00636	--	0.00126	U	0.00290	J	0.00926	J
Cell 20	Vadose	Cell20-Square-99-S-2-3-200427	4/27/2020	0.000756	U	0.00613	--	0.00122	U	0.00269	J	0.00882	J
Cell 20	Vadose	Cell20-Square152-S-2-3-200625	6/25/2020	0.000843	U	0.00185	U	0.00136	U	0.00151	U	0.00185	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	8/7/2020	0.000773	U	0.00169	U	0.00125	U	0.00139	U	0.00169	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	8/7/2020	0.00275	J	0.00149	U	0.0011	U	0.00122	U	0.00275	J
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	8/7/2020	0.000777	U	0.0017	U	0.00126	U	0.00139	U	0.0017	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	8/7/2020	0.000648	U	0.00142	U	0.00105	U	0.00116	U	0.00142	U
Cell 20	Vadose	Cell 20-Square 12-S-3-4-200924	9/24/2020	0.000651	U	0.00143	U	0.00105	U	0.00117	U	0.00143	U
Cell 20	Vadose	Cell20-Square92-S-2-3-201210	12/10/2020	0.000389	J	0.00337	J	0.000968	J	0.00452	--	0.009247	J
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	0.000605	U	0.000864	U	0.000432	U	0.000480	U	0.000864	U
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	0.000598	U	0.000854	U	0.000427	U	0.000939	J	0.000939	J
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	0.000592	U	0.000846	U	0.000423	U	0.000744	J	0.000744	J
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	0.000608	U	0.000869	U	0.000434	U	0.000483	U	0.000869	U
Cell 20	Vadose	Cell20-Square14-S-3-4-211214	12/14/2021	0.000240	J	0.00168	J	0.000356	U	0.00106	J	0.002980	J
Cell 20	Vadose	Cell20-Square18-S-3-4-211214	12/14/2021	0.000237	U	0.00123	J	0.000385	U	0.00113	U	0.00123	J
Cell 20	Vadose	Cell20-Square41-S-3-4-211214	12/14/2021	0.000223	U	0.00154	J	0.000362	U	0.00106	U	0.00154	J
Cell 20	Vadose	Cell20-Square170-S-3-4-211214	12/14/2021	0.000217	U	0.00105	U	0.000352	U	0.00103	U	0.00105	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.000588	U	0.000840	U	0.000420	U	0.000466	U	0.000840	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.000586	U	0.000836	U	0.000418	U	0.000465	U	0.000836	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.000554	U	0.000791	U	0.000395	U	0.000439	U	0.000791	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.000618	U	0.000882	U	0.000441	U	0.000490	U	0.000882	U
Cell 20	Vadose	Cell20-111-S-3-4-220607	6/7/2022	0.000207	U	0.000998	U	0.000335	U	0.000983	U	0.000998	U
Cell 20	Vadose	Cell20-176-S-3-4-220607	6/7/2022	0.000206	U	0.000996	U	0.000334	U	0.000981	U	0.000996	U
Cell 20	Vadose	Cell20-59-S-3-4-220607	6/7/2022	0.000206	U	0.000996	U	0.000334	U	0.000981	U	0.000996	U
Cell 20	Vadose	Cell20-71-S-3-4-220607	6/7/2022	0.000209	U	0.00101	U	0.000339	U	0.000995	U	0.00101	U
Cell 20	Vadose	Cell20-38-S-3-4-220726	7/26/2022	0.000734	U	0.00192	U	0.000666	U	0.000902	U	0.00192	U
Cell 20	Vadose	Cell20-58-S-3-4-220726	7/26/2022	0.000736	U	0.00192	U	0.000668	U	0.000904	U	0.00192	U
Cell 20	Vadose	Cell20-60-S-3-4-220726	7/26/2022	0.00074	U	0.00193	U	0.000672	U	0.000909	U	0.00193	U
Cell 20	Vadose	Cell20-80-S-3-4-220726	7/26/2022	0.000726	U	0.00189	U	0.000658	U	0.000891	U	0.00189	U
Cell 20	Vadose	Cell20-102-S-3-4-221205	12/5/2022	0.000740	U	0.00193	U	0.000672	U	0.000909	U	0.00193	U
Cell 20	Vadose	Cell20-179-S-3-4-221205	12/5/2022	0.000733	U	0.00191	U	0.000665	U	0.000900	U	0.00191	U
Cell 20	Vadose	Cell20-187-S-3-4-221205	12/5/2022	0.000994	U	0.00190	U	0.000661	U	0.000895	U	0.0019	U
Cell 20	Vadose	Cell20-204-S-3-4-221205	12/5/2022	0.000734	U	0.00192	U	0.000666	U	0.000902	U	0.00192	U
Cell 20	Vadose	Cell 20-Square 113-S-3-4-20230512	12/5/2023	0.000396	U	0.00125	U	0.000315	U	0.000448	U	0.00125	U
Cell 20	Vadose	Cell 20-Square 131-S-3-4-20230512	12/5/2023	0.000426	U	0.00135	U	0.000339	U	0.000482	U	0.00135	U
Cell 20	Vadose	Cell 20-Square 134-S-3-4-20230512	12/5/2023	0.000454	U	0.00144	U	0.000361	U	0.000514	U	0.00144	U
Cell 20	Vadose	Cell 20-Square 4-S-3-4-20230512	12/5/2023	0.000400	U	0.00127	U	0.000318	U	0.000453	U	0.00127	U
Cell 20	Vadose	Cell 20-Square 110-S-3-4-240125	1/25/2024	0.386	U	1.22	U	0.307	U	0.436	U	1.22	U
Cell 20	Vadose	Cell 20-Square 130-S-3-4-240125	1/25/2024	0.383	U	1.21	U	0.304	U	0.433	U	1.21	U
Cell 20	Vadose	Cell20-Square 10-S-3-4-240430	4/30/2024	0.000426	U	0.00135	U	0.000339	U	0.000482	U	0.00135	U
Cell 20	Vadose	Cell20-Square 31-S-3-4-240430	4/30/2024	0.000543	U	0.00172	U	0.000432	U	0.000615	U	0.00172	U
Cell 20	Vadose	Cell20-Square 63-S-3-4-240430	4/30/2024	0.000461	U	0.00146	U	0.000367	U	0.000521	U	0.00146	U
Cell 20	Vadose	Cell20-Square 181-S-3-4-240430	4/30/2024	0.000421	U	0.00133	U	0.000335	U	0.000476	U	0.00133	U
Cell 21	Vadose	Cell21-Square135-S-3-4-180314	3/14/2018	0.00474	U	0.00474	U	0.00474	U	0.00474	U	0.00474	U
Cell 21	Vadose	Cell21-Square176-S-3-4-180314	3/14/2018	0.00414	U	0.00414	U	0.00414	U	0.00414	U	0.00414	U
Cell 21	Vadose	Cell21-Square57-S-3-4-180314	3/14/2018	0.00461	U	0.00461	U	0.00461	U	0.00461	U	0.00461	U
Cell 21	Vadose	Cell21-Square80-S-3-4-180314	3/14/2018	0.00463	U	0.00463	U	0.00463	U	0.00463	U	0.00463	U
Cell 21	Vadose	Cell21-Square70-S-3-4-180925	9/25/2018	0.00511	UJ	0.00511	UJ	0.00511	UJ	0.00511	UJ	0.00511	UJ
Cell 21	Vadose	Cell21-Square30-S-3-4-180926	9/26/2018	0.00508	U	0.00508	U	0.00508	U	0.00508	U	0.00508	U
Cell 21	Vadose	Cell21-Square33-S-3-4-180926	9/26/2018	0.00545	U	0.00545	U	0.00545	U	0.00545	U	0.00545	U
Cell 21	Vadose	Cell21-Square36-S-3-4-180926	9/26/2018	0.00481	U	0.00481	U	0.00481	U	0.00481	U	0.00481	U
Cell 21	Vadose	C21-Square 115-S-2-3	3/26/2019	0.000592	U	0.00387	J	0.000958	U	0.001060	U	0.00387	J
Cell 21	Vadose	Cell 21-square196-S-2-3-190618	6/18/2019	0.000724	U	0.00159	U	0.00117	U	0.0013	U	0.00159	U
Cell 21	Vadose	Cell 21-Square 1-S-2-3-190903	9/3/2019	0.000317	U	0.000473	U	0.000289	U	0.0009	U	0.0009	U
Cell 21	Vadose	Cell21-Square107-S-2-191203	12/3/2019	0.000611	U	0.00134	U	0.00099	U	0.00110	U	0.00134	U
Cell 21	Vadose	Cell21-Square182-S-2-3-200326	3/26/2020	0.00106	J	0.00382	J	0.000869	U	0.000963	U	0.00488	J
Cell 21	Vadose	Cell21-Square-14-S-2-3-200428	4/28/2020	0.000811	U	0.00329	J	0.00131	U	0.00145	U	0.00329	J
Cell 21	Vadose	Cell21-Square-155-S-2-3-200428	4/28/2020	0.000725	U	0.00159	U	0.00117	U	0.00130	U	0.00159	U

Table 2
2018 – 2024 Vadose Zone Analytical Results: BTEX
Site Characterization & Soil Remediation Work Plan
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

		Constituent	Benzene		Toluene		Ethylbenzene		Xylenes		Total BTEX[a]	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Part 29 Closure Criteria	10		--		--		--		50	
Landfarm Cell	Zone	Sample ID	Sampling Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 21	Vadose	Cell21-Square-47-S-2-3-200428	4/28/2020	0.000755	U	0.00258	J	0.00122	U	0.00135	U	0.00258	J
Cell 21	Vadose	Cell21-Square-76-S-2-3-200428	4/28/2020	0.000811	U	0.00343	J	0.00131	U	0.00146	U	0.00343	J
Cell 21	Vadose	Cell21-Square73-S-2-3-200625	6/25/2020	0.000956	U	0.00209	U	0.00155	U	0.00171	U	0.00209	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	8/7/2020	0.00353	J	0.00166	U	0.00123	U	0.00136	U	0.00353	J
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	8/7/2020	0.000777	U	0.0017	U	0.00126	U	0.00139	U	0.0017	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	8/7/2020	0.000999	J	0.00156	U	0.00115	U	0.00127	U	0.000999	J
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	8/7/2020	0.00215	J	0.00142	U	0.00105	U	0.00116	U	0.00215	J
Cell 21	Vadose	Cell 21-Square 23-S-3-4-200924	9/24/2020	0.000631	U	0.00138	U	0.00102	U	0.00113	U	0.00138	U
Cell 21	Vadose	Cell21-Square40-S-2-3-201210	12/10/2020	0.000408	J	0.00289	J	0.000686	J	0.00243	--	0.006414	J
Cell 21	Vadose	Cell21-Square18-S-3-4-211214	12/14/2021	0.000219	U	0.00119	J	0.000355	U	0.00104	U	0.00119	J
Cell 21	Vadose	Cell21-Square37-S-3-4-211214	12/14/2021	0.000220	U	0.00106	U	0.000358	U	0.00105	U	0.00106	U
Cell 21	Vadose	Cell21-Square90-S-3-4-211214	12/14/2021	0.000226	U	0.00109	U	0.000366	U	0.00107	U	0.00109	U
Cell 21	Vadose	Cell21-Square117-S-3-4-211214	12/14/2021	0.000219	U	0.00111	J	0.000356	U	0.00104	U	0.00111	J
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.000618	U	0.000882	U	0.000441	U	0.000490	U	0.000882	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.000531	U	0.000759	U	0.000379	U	0.00200	J	0.00200	J
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.000614	U	0.000877	U	0.000439	U	0.000487	U	0.000877	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.000618	U	0.000882	U	0.000441	U	0.000490	U	0.000882	U
Cell 21	Vadose	Cell21-156-S-3-4-220606	6/6/2022	0.000209	U	0.00101	U	0.000339	U	0.000995	U	0.00101	U
Cell 21	Vadose	Cell21-41-S-3-4-220606	6/6/2022	0.000208	U	0.00116	J	0.000337	U	0.000989	U	0.00116	J
Cell 21	Vadose	Cell21-46-S-3-4-220606	6/6/2022	0.000205	U	0.000992	U	0.000333	U	0.000977	U	0.000992	U
Cell 21	Vadose	Cell21-94-S-3-4-220606	6/6/2022	0.000206	U	0.000994	U	0.000334	U	0.000979	U	0.000994	U
Cell 21	Vadose	Cell21-20-S-3-4-220726	7/26/2022	0.000724	U	0.00189	U	0.000657	U	0.000889	U	0.00189	U
Cell 21	Vadose	Cell21-40-S-3-4-220726	7/26/2022	0.000739	U	0.00193	U	0.000670	U	0.000907	U	0.00193	U
Cell 21	Vadose	Cell21-42-S-3-4-220727	7/27/2022	0.000740	U	0.00193	U	0.000672	U	0.000909	U	0.00193	U
Cell 21	Vadose	Cell21-62-S-3-4-220727	7/27/2022	0.000732	U	0.00191	U	0.000664	U	0.000898	U	0.00191	U
Cell 21	Vadose	Cell21-155-S-3-4-221206	12/6/2022	0.000740	U	0.00193	U	0.000672	U	0.000909	U	0.00193	U
Cell 21	Vadose	Cell21-47-S-3-4-221206	12/6/2022	0.000739	U	0.00193	U	0.000670	U	0.000907	U	0.00193	U
Cell 21	Vadose	Cell21-61-S-3-4-221206	12/6/2022	0.000732	U	0.00191	U	0.000664	U	0.000898	U	0.00191	U
Cell 21	Vadose	Cell21-76-S-3-4-221206	12/6/2022	0.000726	U	0.00189	U	0.0000658	U	0.000891	U	0.00189	U
Cell 21	Vadose	Cell21-Square125-S-3-4-20230829	8/29/2023	0.000608	U	0.00192	U	0.000468	U	0.000984	U	0.00192	U
Cell 21	Vadose	Cell21-Square143-S-3-4-20230829	8/29/2023	0.00057	U	0.0018	U	0.000439	U	0.000923	U	0.0018	U
Cell 21	Vadose	Cell21-Square139-S-3-4-20230830	8/30/2023	0.000624	U	0.00197	U	0.00048	U	0.00101	U	0.00197	U
Cell 21	Vadose	Cell21-Square99-S-3-4-20230830	8/30/2023	0.000644	U	0.00203	U	0.000495	U	0.00104	U	0.00203	U
Cell 21	Vadose	Cell 21-Square 100-S-3-4-20230612	12/6/2023	0.000423	U	0.00134	U	0.000337	U	0.000479	U	0.00134	U
Cell 21	Vadose	Cell 21-Square 104-S-3-4-20230612	12/6/2023	0.000404	U	0.00128	U	0.000322	U	0.000458	U	0.00128	U
Cell 21	Vadose	Cell 21-Square 98-S-3-4-20230612	12/6/2023	0.000410	U	0.00130	U	0.000327	U	0.000464	U	0.0013	U
Cell 21	Vadose	Cell 21-Square 78-S-3-4-20230612	12/6/2023	0.000415	U	0.00131	U	0.000330	U	0.000469	U	0.00131	U
Cell 21	Vadose	Cell 21 Square 120-S-3-4-240508	5/8/2024	0.00140	U	0.00202	U	0.00110	U	0.00230	U	0.00230	U
Cell 21	Vadose	Cell 21 Square 124-S-3-4-240508	5/8/2024	0.00139	U	0.00200	U	0.00109	U	0.00229	U	0.00229	U
Cell 21	Vadose	Cell 21 Square 126-S-3-4-240508	5/8/2024	0.00141	U	0.00202	U	0.00110	U	0.00231	U	0.00231	U
Cell 21	Vadose	Cell 21 Square98-S-3-4-240509	5/9/2024	0.00140	U	0.00201	U	0.00109	U	0.00229	U	0.00229	U
Cell 21	Vadose	Cell21-Square194-S-3-4-240717	7/17/2024	0.000382	U	0.00121	U	0.000304	U	0.000432	U	0.00121	U
Cell 21	Vadose	Cell 21 Square 98-S-3-4-240718	7/18/2024	--	--	--	--	--	--	--	--	--	--
Cell 21	Vadose	Cell 21 Square120-S-3-4-240718	7/18/2024	--	--	--	--	--	--	--	--	--	--
Cell 21	Vadose	Cell 21 Square124-S-3-4-240718	7/18/2024	--	--	--	--	--	--	--	--	--	--
Cell 21	Vadose	Cell 21 Square126-S-3-4-240718	7/18/2024	--	--	--	--	--	--	--	--	--	--
Cell 25	Vadose	C25-Sq115-S-3-4-180314	3/14/2018	0.00361	U	0.00361	U	0.00361	U	0.00361	U	0.00361	U
Cell 25	Vadose	C25-Sq192-S-3-4-180314	3/14/2018	0.00477	U	0.00477	U	0.00477	U	0.00477	U	0.00477	U
Cell 25	Vadose	C25-Sq57-S-3-4-180314	3/14/2018	0.00401	U	0.00401	U	0.00401	U	0.00401	U	0.00401	U
Cell 25	Vadose	C25-Sq86-S-3-4-180314	3/14/2018	0.00404	U	0.00404	U	0.00404	U	0.00404	U	0.00404	U
Cell 25	Vadose	Cell25-Square173-S-3-4-180925	9/25/2018	0.00471	UJ	0.00471	UJ	0.00471	UJ	0.00471	UJ	0.00471	UJ
Cell 25	Vadose	Cell25-Square208-S-3-4-180925	9/25/2018	0.00359	UJ	0.00359	UJ	0.00359	UJ	0.00359	UJ	0.00359	UJ
Cell 25	Vadose	Cell25-Square68-S-3-4-180925	9/25/2018	0.00397	UJ	0.00397	UJ	0.00397	UJ	0.00397	UJ	0.00397	UJ
Cell 25	Vadose	Cell25-Square9-S-3-4-180925	9/25/2018	0.00413	UJ	0.00413	UJ	0.00413	UJ	0.00413	UJ	0.00413	UJ
Cell 25	Vadose	C25-Square 3-S-2-3	3/26/2019	0.000567	U	0.00611	--	0.000918	U	0.001020	U	0.00611	--
Cell 25	Vadose	Cell25-square39-S-2-3-190619	6/19/2019	0.000615	U	0.0067	--	0.000996	U	0.00345	J	0.00670	J
Cell 25	Vadose	Cell25-Square-6-S-2-3-190724	7/24/2019	0.000677	U	0.00148	U	0.0011	U	0.00122	U	0.00148	U
Cell 25	Vadose	Cell25-Square-64-S-2-3-190724	7/24/2019	0.000677	U	0.00148	U	0.0011	U	0.00122	U	0.00148	U
Cell 25	Vadose	Cell25-Square-85-S-2-3-190724	7/24/2019	0.000806	U	0.00176	U	0.0013	U	0.00145	U	0.00176	U
Cell 25	Vadose	Cell25-Square-93-S-2-3-190724	7/24/2019	0.000521	U	0.00114	U	0.000843	U	0.000934	U	0.00114	U
Cell 25	Vadose	Cell 25-Square 42-S-2-3-190903	9/3/2019	0.000267	U	0.000398	U	0.000243	U	0.000756	U	0.000756	U
Cell 25	Vadose	Cell25-Square108-S-2-191203	12/3/2019	0.000527	U	0.00115	U	0.000853	U	0.000945	U	0.00115	U
Cell 25	Vadose	Cell25-Square3-S-2-3-200326	3/26/2020	0.000615	U	0.00253	J	0.000995	U	0.00110	U	0.003145	J
Cell 25	Vadose	Cell25-Square-162-S-2-3-200429	4/29/2020	0.00071	U	0.00155	U	0.00115	U	0.00127	U	0.00155	U
Cell 25	Vadose	Cell25-Square-179-S-2-3-200429	4/29/2020	0.000721	U	0.00158	U	0.00117	U	0.00129	U	0.00158	U
Cell 25	Vadose	Cell25-Square-187-S-2-3-200429	4/29/2020	0.000706	U	0.00155	U	0.00114	U	0.00127	U	0.00155	U
Cell 25	Vadose	Cell25-Square-85-S-2-3-200429	4/29/2020	0.000741	U	0.00162	U	0.00120	U	0.00133	U	0.00162	U
Cell 25	Vadose	Cell25-Square106-S-2-3-200625	6/25/2020	0.000796	U	0.00174	U	0.00129	U	0.00143	U	0.00174	U
Cell 25	Vadose	Cell 25- Square 163-S-3-4-200924	9/24/2020	0.000670	U	0.00147	U	0.00109	U	0.00120	U	0.00147	U
Cell 25	Vadose	Cell25-Square107-S-2-3-201210	12/10/2020	0.000259	J	0.00212	J	0.000677	J	0.00229	--	0.005346	J
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	0.000558	U	0.000796	U	0.000398	U	0.000442	U	0.000796	U
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	0.000619	U	0.000884	U	0.000442	U	0.000491	U	0.000884	U
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	0.000618	U	0.000882	U	0.000441	U	0.000490	U	0.000882	U
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	0.000599	U	0.000856	U	0.000428	U	0.000475	U	0.000856	U
Cell 25	Vadose	Cell25-Square33-S-3-4-211214	12/14/2021	0.000223	U	0.00108	U	0.000361	U	0.00106	U	0.00108	U
Cell 25	Vadose	Cell25-Square70-S-3-4-211214	12/14/2021	0.000229	U	0.00110	U	0.000371	U	0.00109	U	0.0011	U
Cell 25	Vadose	Cell25-Square176-S-3-4-211214	12/14/2021	0.000222	U	0.00107	U	0.000360	U	0.00106	U	0.00107	U
Cell 25	Vadose	Cell25-Square190-S-3-4-211214	12/14/2021	0.000225	U	0.00109	U	0.000364	U	0.00107	U	0.00109	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.000575	U	0.000821	U	0.000411	U	0.000456	U	0.000821	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.000624	U	0.000891	U	0.000446	U	0.000495	U	0.000891	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.000583	U	0.000833	U	0.000417	U	0.000463	U	0.000833	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.000563	U	0.000804	U	0.000402	U	0.000446	U	0.000804	U
Cell 25	Vadose	Cell25-108-S-3-4-220606	6/6/2022	0.000208	U	0.00101	U	0.000338	U	0.000991	U	0.00101	U
Cell 25	Vadose	Cell25-188-S-3-4-220606	6/6/2022	0.000209	U	0.00101	U	0.000338	U	0.000993	U	0.00101	U
Cell 25	Vadose	Cell25-26-S-3-4-220606	6/6/2022	0.000209	U	0.00101	U	0.000339	U	0.000995	U	0.00101	U
Cell 25	Vadose	Cell25-83-S-3-4-220606	6/6/2022	0.000206	U	0.000994	U	0.000334	U	0.000979	U	0.000994	U
Cell 25	Vadose	Cell25-88-S-3-4-221206	12/6/2022	0.000729	U	0.00190	U	0.000661	U	0.000895	U	0.0019	U
Cell 25	Vadose	Cell25-114-S-3-4-221207	12/7/2022	0.000726	U	0.00189	U	0.000658	U	0.000891	U	0.00189	U
Cell 25	Vadose	Cell25-179-S-3-4-221207	12/7/2022	0.00074	U	0.00193	U	0.000672	U	0.000909	U	0.00193	U
Cell 25	Vadose	Cell25-187-S-3-4-221207	12/7/2022	0.000729	U	0.00190	U	0.000661	U	0.000895	U	0.0019	U
Cell 25	Vadose	Cell 25-Square 113-S-3-4-20230712	12/7/2023	0.000396	U	0.00125	U	0.000315	U	0.000448	U	0.00125	U
Cell 25	Vadose	Cell 25-Square 56-S-3-4-20230712	12/7/2023	0.000414	U	0.00131	U	0.000330	U	0.000469	U	0.00131	U

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		Constituent	Benzene		Toluene		Ethylbenzene		Xylenes		Total BTEX[a]	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Part 29 Closure Criteria	10		--		--		--		50	
Landfarm Cell	Zone	Sample ID	Sampling Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 25	Vadose	Cell 25-Square 184-S-3-4-20230712	12/7/2023	0.000410	U	0.00130	U	0.000327	U	0.000464	U	0.0013	U
Cell 25	Vadose	Cell 25-Square 22-S-3-4-20230712	12/7/2023	0.000432	U	0.00137	U	0.000344	U	0.000489	U	0.00137	U
Cell 25	Vadose	Cell25-Square81-S-3-4-240509	5/9/2024	0.00139	U	0.00200	U	0.00109	U	0.00229	U	0.00229	--
Cell 25	Vadose	Cell25-Square120-S-3-4-240509	5/9/2024	0.00140	U	0.00201	U	0.00109	U	0.00229	U	0.00229	--
Cell 25	Vadose	Cell25-Square151-S-3-4-240509	5/9/2024	0.00140	U	0.00201	U	0.00110	U	0.00230	U	0.00230	--
Cell 25	Vadose	Cell25-Square184-S-3-4-240509	5/9/2024	0.00139	U	0.00200	U	0.00109	U	0.00228	U	0.00228	--
Cell 25	Vadose	Cell25-Square151-S-3-4-240718	7/18/2024	--	--	--	--	--	--	--	--	--	--
Cell 25	Vadose	Cell25-Square120-S-3-4-240718	7/18/2024	--	--	--	--	--	--	--	--	--	--
Cell 25	Vadose	Cell25-Square81-S-3-4-240718	7/18/2024	--	--	--	--	--	--	--	--	--	--
Cell 25	Vadose	Cell25-Square184-S-3-4-240718	7/18/2024	--	--	--	--	--	--	--	--	--	--
Cell 26	Vadose	Cell26-Square153-S-3-4-180314	3/14/2018	0.00464	U	0.00464	U	0.00464	U	0.00464	U	0.00464	U
Cell 26	Vadose	Cell26-Square185-S-3-4-180314	3/14/2018	0.0049	U	0.0049	U	0.0049	U	0.0049	U	0.00485	U
Cell 26	Vadose	Cell26-Square22-S-3-4-180314	3/14/2018	0.00493	U	0.00493	U	0.00493	U	0.00493	U	0.00493	U
Cell 26	Vadose	Cell26-Square74-S-3-4-180314	3/14/2018	0.00489	U	0.00489	U	0.00489	U	0.00489	U	0.00489	U
Cell 26	Vadose	Cell26-Square127-S-3-4-180925	9/25/2018	0.00514	UJ	0.00514	UJ	0.00514	UJ	0.00514	UJ	0.00514	UJ
Cell 26	Vadose	Cell26-Square191-S-3-4-180925	9/25/2018	0.0045	UJ	0.0045	UJ	0.0045	UJ	0.0045	UJ	0.00450	UJ
Cell 26	Vadose	Cell26-Square22-S-3-4-180925	9/25/2018	0.00449	UJ	0.00449	UJ	0.00449	UJ	0.00449	UJ	0.00449	UJ
Cell 26	Vadose	Cell26-Square29-S-3-4-180925	9/25/2018	0.00449	UJ	0.00449	UJ	0.00449	UJ	0.00449	UJ	0.00449	UJ
Cell 26	Vadose	C26-Square 100-S-2-3	3/26/2019	0.000539	U	0.00118	U	0.000872	U	0.000966	U	0.00118	U
Cell 26	Vadose	Cell26-square26-S-2-3-190619	6/19/2019	0.000722	U	0.022	--	0.00117	U	0.00807	--	0.02200	--
Cell 26	Vadose	Cell 26-Square169-S-2-3-190723	7/23/2019	0.00059	U	0.00129	U	0.000955	U	0.00106	U	0.00129	U
Cell 26	Vadose	Cell 26-Square69-S-2-3-190723	7/23/2019	0.000424	U	0.000929	U	0.000686	U	0.00076	U	0.00093	U
Cell 26	Vadose	Cell26-Square115-S-2-3-190724	7/24/2019	0.000808	U	0.00177	U	0.00131	U	0.00145	U	0.00177	U
Cell 26	Vadose	Cell26-Square198-S-2-3-190724	7/24/2019	0.000702	U	0.00154	U	0.00114	U	0.00126	U	0.00154	U
Cell 26	Vadose	Cell 26-Square 18-S-2-3-190903	9/3/2019	0.000317	U	0.000473	U	0.000289	U	0.000899	U	0.000899	U
Cell 26	Vadose	Cell26-Square207-S-2-191203	12/3/2019	0.000699	U	0.00153	U	0.00113	U	0.00125	U	0.00153	U
Cell 26	Vadose	Cell26-Square96-S-2-3-200326	3/26/2020	0.00276	J	0.00837	--	0.00098	U	0.00216	J	0.01329	J
Cell 26	Vadose	Cell26-Square-110-S-2-3-200429	4/29/2020	0.000763	U	0.00167	U	0.00123	U	0.00137	U	0.00167	U
Cell 26	Vadose	Cell26-Square-167-S-2-3-200429	4/29/2020	0.000682	U	0.00149	U	0.00110	U	0.00122	U	0.00149	U
Cell 26	Vadose	Cell26-Square-169-S-2-3-200429	4/29/2020	0.000747	U	0.00164	U	0.00121	U	0.00134	U	0.00164	U
Cell 26	Vadose	Cell26-Square-79-S-2-3-200429	4/29/2020	0.000799	U	0.00175	U	0.00129	U	0.00143	U	0.00175	U
Cell 26	Vadose	Cell26-Square66-S-2-3-200625	6/25/2020	0.000882	U	0.00193	U	0.00143	U	0.00158	U	0.00193	U
Cell 26	Vadose	Cell 26-Square112-S-3-4-200924	9/24/2020	0.000612	U	0.00134	U	0.00099	U	0.00110	U	0.00134	U
Cell 26	Vadose	Cell26-Square36-S-2-3-201210	12/10/2020	0.000207	U	0.00162	J	0.00057	J	0.00194	--	0.0	J
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	0.000584	U	0.000835	U	0.000417	U	0.000464	U	0.000835	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	0.000623	U	0.000889	U	0.000445	U	0.000494	U	0.000889	U
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	0.000602	U	0.000860	U	0.000430	U	0.000478	U	0.00086	U
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	0.000528	U	0.000754	U	0.000377	U	0.000419	U	0.000754	U
Cell 26	Vadose	Cell26-Square8-S-3-4-211215	12/15/2021	0.00278	U	0.00134	U	0.000451	U	0.00132	U	0.00134	U
Cell 26	Vadose	Cell26-Square74-S-3-4-211215	12/15/2021	0.000263	U	0.00127	U	0.000427	U	0.00125	U	0.00127	U
Cell 26	Vadose	Cell26-Square183-S-3-4-211215	12/15/2021	0.000231	U	0.00111	U	0.000374	U	0.00110	U	0.00111	U
Cell 26	Vadose	Cell26-Square210-S-3-4-211215	12/15/2021	0.000228	U	0.00110	U	0.000370	U	0.00109	U	0.0011	U
Cell 26	Vadose	Cell26-111-S-3-4-220606	6/6/2022	0.000208	U	0.00100	U	0.000337	U	0.000989	U	0.001	U
Cell 26	Vadose	Cell26-168-S-3-4-220606	6/6/2022	0.000207	U	0.00100	U	0.000336	U	0.000987	U	0.001	U
Cell 26	Vadose	Cell26-65-S-3-4-220606	6/6/2022	0.000209	U	0.00101	U	0.000339	U	0.000995	U	0.00101	U
Cell 26	Vadose	Cell26-80-S-3-4-220606	6/6/2022	0.000209	U	0.00101	U	0.000338	U	0.000993	U	0.00101	U
Cell 26	Vadose	Cell26-79-S-3-4-221207	12/7/2022	0.00074	U	0.00193	U	0.000672	U	0.000909	U	0.00193	U
Cell 26	Vadose	Cell26-115-S-3-4-221207	12/7/2022	0.00074	U	0.00193	U	0.000672	U	0.000909	U	0.00193	U
Cell 26	Vadose	Cell26-129-S-3-4-221207	12/7/2022	0.000737	U	0.00192	U	0.000669	U	0.000905	U	0.00192	U
Cell 26	Vadose	Cell26-198-S-3-4-221207	12/7/2022	0.000729	U	0.0019	U	0.000661	U	0.000895	U	0.0019	U
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	0.00049	U	0.00154	U	0.000377	U	0.000792	U	0.00154	U
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	0.000497	U	0.00157	U	0.000382	U	0.000803	U	0.00157	U
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	0.000495	U	0.00156	U	0.00038	U	0.0008	U	0.00156	U
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	0.000496	U	0.00156	U	0.000381	U	0.000802	U	0.00156	U
Cell 26	Vadose	Cell 26-Square 172-S-3-4-20230712	12/7/2023	0.000414	U	0.00131	U	0.000330	U	0.000469	U	0.00131	U
Cell 26	Vadose	Cell 26-Square 19-S-3-4-20230712	12/7/2023	0.000396	U	0.00125	U	0.000315	U	0.000448	U	0.00125	U
Cell 26	Vadose	Cell 26-Square 54-S-3-4-20230712	12/7/2023	0.000405	U	0.00128	U	0.000322	U	0.000459	U	0.00128	U
Cell 26	Vadose	Cell 26-Square 57-S-3-4-20230712	12/7/2023	0.000411	U	0.00130	U	0.000327	U	0.000465	U	0.0013	U
Cell 26	Vadose	Cell26-Square41-S-3-4-240509	5/9/2024	0.00139	U	0.00199	U	0.00108	U	0.00228	U	0.00228	U
Cell 26	Vadose	Cell26-Square85-S-3-4-240509	5/9/2024	0.00141	U	0.00202	U	0.00110	U	0.00231	U	0.00231	U
Cell 26	Vadose	Cell26-Square151-S-3-4-240509	5/9/2024	0.00138	U	0.00198	U	0.00108	U	0.00227	U	0.00227	U
Cell 26	Vadose	Cell26-Square175-S-3-4-240509	5/9/2024	0.00138	U	0.00199	U	0.00108	U	0.00227	U	0.00227	U
Cell 26	Vadose	Cell26-Square85-S-3-4-240719	7/19/2024	--	--	--	--	--	--	--	--	--	--
Cell 26	Vadose	Cell26-Square151-S-3-4-240719	7/19/2024	--	--	--	--	--	--	--	--	--	--
Cell 26	Vadose	Cell26-Square175-S-3-4-240719	7/19/2024	--	--	--	--	--	--	--	--	--	--
Cell 26	Vadose	Cell26-Square41-S-3-4-240719	7/19/2024	--	--	--	--	--	--	--	--	--	--

Notes:

[a] BTEX is the sum of detected benzene, toluene, ethylbenzene, and xylenes. If all results are non-detect, the highest non-detect value is presented.

1. Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.
2. BTEX results did not exceed the 19.15.29 NMAC closure criteria for soils impacted by a release.

Acronyms and Abbreviations:

-- = not applicable or available
BTEX = benzene, toluene, ethylbenzene, and xylenes
ID = identification
mg/kg = milligrams per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
SDL = sample detection limit

Qualifiers:

H = Sample was prepped or analyzed beyond the specified holding time.
H3 = Sample was received and analyzed past 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.

Table 3
2018 – 2024 Vadose Zone Analytical Results: Chloride
Site Characterization & Soil Remediation Work Plan
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

			Constituent Units Part 29 Closure Criteria	Chloride mg/kg 600	
Landfarm Cell	**Zone**	**Sample ID**	**Sampling Date**	**Result**	**Qualifier**
Cell 17	Vadose	C17-Sq45-S-3-4-180313	3/13/2018	725	--
Cell 17	Vadose	C17-Sq110-S-3-4-180313	3/13/2018	17.80	--
Cell 17	Vadose	C17-Sq118-S-3-4-180313	3/13/2018	4.15	--
Cell 17	Vadose	C17-Sq201-S-3-4-180313	3/13/2018	379	--
Cell 17	Vadose	Cell17-Square66-S-3-4-180927	9/27/2018	1,550	--
Cell 17	Vadose	Cell17-Square103-S-3-4-180927	9/27/2018	3.99	UB
Cell 17	Vadose	Cell17-Square106-S-3-4-180927	9/27/2018	397	--
Cell 17	Vadose	Cell17-Square99-S-3-4-180927	9/27/2018	197	--
Cell 17	Vadose	Cell 17-square131-S-2-3-190618	6/18/2019	32.4	--
Cell 17	Vadose	Cell17-Square204-S-2-191202	12/02/2019	110	B
Cell 17	Vadose	Cell17-Square 113-S-3-4-200114	1/14/2020	28.4	B
Cell 17	Vadose	Cell17-Square 175-S-3-4-200114	1/14/2020	2.54	JB
Cell 17	Vadose	Cell17-Square 207-S-3-4-200114	1/14/2020	2.30	JB
Cell 17	Vadose	Cell17-Square 45-S-3-4-200114	1/14/2020	25.9	JB
Cell 17	Vadose	Cell17-Square-129-S-2-3-200429	4/29/2020	186	--
Cell 17	Vadose	Cell17-Square-190-S-2-3-200429	4/29/2020	19.1	--
Cell 17	Vadose	Cell17-Square-37-S-2-3-200429	4/29/2020	13.6	--
Cell 17	Vadose	Cell17-Square-91-S-2-3-200429	4/29/2020	13.1	--
Cell 17	Vadose	Cell17-Square46-S-2-3-200625	6/25/2020	367	--
Cell 17	Vadose	Cell17-Square152-S-2-3-200806	8/6/2020	2.39	J
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	8/6/2020	6.83	--
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	8/6/2020	157	--
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	8/6/2020	4.28	J
Cell 17	Vadose	Cell17-Square179-S-2-3-201210	12/10/2020	78.7	--
Cell 17	Vadose	Cell17-23-S-3-4-211006	10/6/2021	814	--
Cell 17	Vadose	Cell17-119-S-3-4-211006	10/6/2021	282	--
Cell 17	Vadose	Cell17-127-S-3-4-211006	10/6/2021	148	--
Cell 17	Vadose	Cell17-136-S-3-4-211006	10/6/2021	7.78	J
Cell 17	Vadose	Cell17-Square116-S-3-4-211213	12/13/2021	10.5	J
Cell 17	Vadose	Cell17-Square120-S-3-4-211213	12/13/2021	7.26	J
Cell 17	Vadose	Cell17-Square130-S-3-4-211213	12/13/2021	75.9	--
Cell 17	Vadose	Cell17-Square16-S-3-4-211213	12/13/2021	37.7	--
Cell 17	Vadose	Cell17-Square 26-S-3-4-220124	1/24/2022	666	--
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	3.59	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	93.7	--
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	13.4	--
Cell 17	Vadose	Cell17-114-S-3-4-220607	6/7/2022	4.72	J
Cell 17	Vadose	Cell17-154-S-3-4-220607	6/7/2022	4.46	J
Cell 17	Vadose	Cell17-178-S-3-4-220607	6/7/2022	4.7	J
Cell 17	Vadose	Cell17-59-S-3-4-220607	6/7/2022	6.0	J
Cell 17	Vadose	Cell17-Square118-S-3-4-230605	6/5/2023	10.4	J
Cell 17	Vadose	Cell17-Square141-S-3-4-230605	6/5/2023	26.6	--
Cell 17	Vadose	Cell17-Square51-S-3-4-230605	6/5/2023	5.20	U
Cell 17	Vadose	Cell17-Square56-S-3-4-230605	6/5/2023	101	--
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	176	--
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	12.5	--
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	88.7	--
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	142	--
Cell 17	adose Resamp	Cell17-Square118-S-3-4-20230830	8/30/2023	12.6	--
Cell 17	adose Resamp	Cell17-Square141-S-3-4-20230830	8/30/2023	17.6	--
Cell 17	adose Resamp	Cell17-Square51-S-3-4-20230830	8/30/2023	5.44	U
Cell 17	adose Resamp	Cell17-Square56-S-3-4-20230830	8/30/2023	187	--
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	169	--
Cell 17	Vadose	Cell 17-Square 183-S-3-4-20230612	12/6/2023	5.18	J
Cell 17	Vadose	Cell 17-Square 205-S-3-4-20230612	12/6/2023	6.81	J
Cell 17	Vadose	Cell 17-Square 48-S-3-4-20230612	12/6/2023	564	--
Cell 17	Vadose	Cell 17-Square1-S-3-4-20230612	12/6/2023	116	--
Cell 17	Vadose	Cell17-Square22-S-3-4-240122	1/22/2024	1240	--
Cell 17	Vadose	Cell17-Square2-S-3-4-240122	1/22/2024	559	--
Cell 17	Vadose	Cell17-Square47-S-3-4-240122	1/22/2024	109	--
Cell 17	Vadose	Cell 17-Square 27-S-3-4-240123	1/23/2024	447	--
Cell 17	Vadose	Cell 17-Square 49-S-3-4-240123	1/23/2024	138	--
Cell 17	Vadose	Cell 17-Square 69-S-3-4-240123	1/23/2024	208	--
Cell 17	Vadose	Cell 17-Square 43-S-3-4-240501	5/1/2024	439	--

Table 3
2018 – 2024 Vadose Zone Analytical Results: Chloride
Site Characterization & Soil Remediation Work Plan
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

			Constituent Units Part 29 Closure Criteria	Chloride mg/kg 600	
Landfarm Cell	Zone	Sample ID	Sampling Date	Result	Qualifier
Cell 17	Vadose	Cell 17 Square 5-S-3-4-24050808	5/8/2024	704	--
Cell 17	Vadose	Cell 17 Square 201-S-3-4-240508	5/8/2024	18.3	--
Cell 17	Vadose	Cell 17 Square 25-S-3-4-240508	5/8/2024	495	--
Cell 17	Vadose	Cell17-Square64-S-3-4-240716	7/16/2024	611	--
Cell 17	Vadose	Cell17-Square24-S-3-4-240716	7/16/2024	148	--
Cell 17	Vadose	Cell17-Square44-S-3-4-240716	7/16/2024	208	--
Cell 17	Vadose	Cell17-Square4-S-3-4-240716	7/16/2024	536	--
Cell 17	Vadose	Cell17-Square6-S-3-4-240717	7/17/2024	402	--
Cell 18	Vadose	C18-Sq125-S-3-4-180313	3/13/2018	1.37	J
Cell 18	Vadose	C18-Sq203-S-3-4-180313	3/13/2018	9.09	--
Cell 18	Vadose	C18-Sq40-S-3-4-180313	3/13/2018	3.61	J
Cell 18	Vadose	C18-Sq52-S-3-4-180313	3/13/2018	265.00	--
Cell 18	Vadose	Cell18-Square154-S-3-4-180927	9/27/2018	4.00	UB
Cell 18	Vadose	Cell18-Square58-S-3-4-180927	9/27/2018	3.95	UB
Cell 18	Vadose	Cell18-Square71-S-3-4-180927	9/27/2018	3.98	UB
Cell 18	Vadose	Cell18-Square8-S-3-4-180927	9/27/2018	6.29	UB
Cell 18	Vadose	Cell18-Square133-S-2-3-190506	5/6/2019	33.2	--
Cell 18	Vadose	Cell18-Square194-S-2-3-190506	5/6/2019	0.533	U
Cell 18	Vadose	Cell18-Square2-S-2-3-190506	5/6/2019	0.528	U
Cell 18	Vadose	Cell18-Square56-S-2-3-190506	5/6/2019	31.2	--
Cell 18	Vadose	Cell 18-square82-S-2-3-190618	6/18/2019	0.534	U
Cell 18	Vadose	Cell18-Square179-S-2-191202	12/02/2019	3.74	JB
Cell 18	Vadose	Cell18-Square 133-S-3-4-200114	1/14/2020	2.90	JB
Cell 18	Vadose	Cell18-Square 181-S-3-4-200114	1/14/2020	3.89	JB
Cell 18	Vadose	Cell18-Square 83-S-3-4-200114	1/14/2020	3.47	JB
Cell 18	Vadose	Cell18-Square 92-S-3-4-200114	1/14/2020	2.01	JB
Cell 18	Vadose	Cell18-Square-202-S-2-3-200428	4/28/2020	4.90	J
Cell 18	Vadose	Cell18-Square-35-S-2-3-200428	4/28/2020	3.71	J
Cell 18	Vadose	Cell18-Square-55-S-2-3-200428	4/28/2020	28.8	--
Cell 18	Vadose	Cell18-Square-59-S-2-3-200428	4/28/2020	2.81	J
Cell 18	Vadose	Cell18-Square31-S-2-3-200625	6/25/2020	163	--
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	8/6/2020	32.3	--
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	8/6/2020	3.29	J
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	8/6/2020	3.01	J
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	8/6/2020	2.72	J
Cell 18	Vadose	Cell18-Square74-S-2-3-201210	12/10/2020	37.8	--
Cell 18	Vadose	Cell18-162-S-3-4-211006	10/6/2021	20.8	--
Cell 18	Vadose	Cell18-45-S-3-4-211006	10/6/2021	7.41	J
Cell 18	Vadose	Cell18-76-S-3-4-211006	10/6/2021	161	--
Cell 18	Vadose	Cell18-8-S-3-4-211006	10/6/2021	19.1	--
Cell 18	Vadose	Cell18-Square14-S-3-4-211213	12/13/2021	43.0	--
Cell 18	Vadose	Cell18-Square156-S-3-4-211213	12/13/2021	5.77	J
Cell 18	Vadose	Cell18-Square175-S-3-4-211213	12/13/2021	8.09	J
Cell 18	Vadose	Cell18-Square22-S-3-4-211213	12/13/2021	7.90	J
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	5.29	J
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	7.37	J
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	3.48	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	24.0	--
Cell 18	Vadose	Cell18-133-S-3-4-220607	6/7/2022	3.51	U
Cell 18	Vadose	Cell18-195-S-3-4-220607	6/7/2022	3.52	U
Cell 18	Vadose	Cell18-198-S-3-4-220607	6/7/2022	5.23	J
Cell 18	Vadose	Cell18-36-S-3-4-220607	6/7/2022	4.5	J
Cell 18	Vadose	Cell18-Square150-S-3-4-230605	6/5/2023	5.57	U
Cell 18	Vadose	Cell18-Square26-S-3-4-230605	6/5/2023	5.47	U
Cell 18	Vadose	Cell18-Square54-S-3-4-230605	6/5/2023	33.6	--
Cell 18	Vadose	Cell18-Square75-S-3-4-230605	6/5/2023	32.8	--
Cell 18	Vadose	Cell 18-Square 184-S-3-4-20230512	12/5/2023	6.74	J
Cell 18	Vadose	Cell 18-Square 114-S-3-4-20230612	12/6/2023	14.0	--
Cell 18	Vadose	Cell 18-Square 13-S-3-4-20230612	12/6/2023	9.94	J
Cell 18	Vadose	Cell 18-Square 42-S-3-4-20230612	12/6/2023	25.0	--
Cell 18	Vadose	Cell 18-Square 21-S-3-4-240123	1/23/2024	4.95	U
Cell 18	Vadose	Cell18-Square 3-S-3-4-240430	4/30/2024	5.32	U
Cell 18	Vadose	Cell 18-Square 141-S-3-4-240501	5/1/2024	70.2	--
Cell 18	Vadose	Cell 18-Square 42-S-3-4-240501	5/1/2024	6.96	J

Table 3
2018 – 2024 Vadose Zone Analytical Results: Chloride
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Jal Landfarm, Permit NM-02-0012
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			Constituent Units Part 29 Closure Criteria	Chloride mg/kg 600	
Landfarm Cell	**Zone**	**Sample ID**	**Sampling Date**	**Result**	**Qualifier**
Cell 18	Vadose	Cell 18-Square 95-S-3-4-240501	5/1/2024	18.1	--
Cell 18	Vadose	Cell18-Square120-S-3-4-240717	7/17/2024	5.31	J
Cell 18	Vadose	Cell18-Square140-S-3-4-240717	7/17/2024	44.4	--
Cell 18	Vadose	Cell18-Square142-S-3-4-240717	7/17/2024	4.96	U
Cell 18	Vadose	Cell18-Square63-S-3-4-240717	7/17/2024	4.98	U
Cell 19	Vadose	C19-Sq169-S-3-4-180313	3/13/2018	24.4	--
Cell 19	Vadose	C19-Sq183-S-3-4-180313	3/13/2018	2.69	J
Cell 19	Vadose	C19-Sq193-S-3-4-180313	3/13/2018	4.28	--
Cell 19	Vadose	C19-Sq52-S-3-4-180313	3/13/2018	6.36	--
Cell 19	Vadose	Cell19-Square198-S-3-4-180926	9/26/2018	38.5	--
Cell 19	Vadose	Cell19-Square96-S-3-4-180926	9/26/2018	13.6	--
Cell 19	Vadose	Cell19-Square56-S-3-4-180927	9/27/2018	13.1	--
Cell 19	Vadose	Cell19-Square98-S-3-4-180927	9/27/2018	6.61	UB
Cell 19	Vadose	Cell 19-square173-S-2-3-190618	6/18/2019	1.76	J
Cell 19	Vadose	Cell19-Square132-S-2-3-190723	7/23/2019	3.46	J
Cell 19	Vadose	Cell 19-Square156-S-2-3-190723	7/23/2019	0.535	U
Cell 19	Vadose	Cell 19-Square184-S-2-3-190723	7/23/2019	4.41	--
Cell 19	Vadose	Cell19-Square23-S-2-3-1907233	7/23/2019	0.53	U
Cell 19	Vadose	Cell19-Square83-S-2-191202	12/02/2019	4.46	B
Cell 19	Vadose	Cell19-Square-105-S-3-4-200115	1/15/2020	3.50	JB
Cell 19	Vadose	Cell19-Square-204-S-3-4-200115	1/15/2020	5.41	B
Cell 19	Vadose	Cell19-Square-82-S-3-4-200115	1/15/2020	8.90	B
Cell 19	Vadose	Cell19-Square-93-S-3-4-200115	1/15/2020	22.9	B
Cell 19	Vadose	Cell19-Square-171-S-2-3-200427	4/27/2020	4.63	--
Cell 19	Vadose	Cell19-Square-154-S-2-3-200428	4/28/2020	4.57	--
Cell 19	Vadose	Cell19-Square-23-S-2-3-200428	4/28/2020	4.23	J
Cell 19	Vadose	Cell19-Square-93-S-2-3-200428	4/28/2020	6.30	--
Cell 19	Vadose	Cell19-Square82-S-2-3-200625	6/25/2020	5.50	J
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	8/6/2020	3.15	J
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	8/7/2020	4.90	--
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	8/7/2020	3.75	J
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	8/7/2020	6.12	--
Cell 19	Vadose	Cell19-Square79-S-2-3-201210	12/10/2020	12.5	--
Cell 19	Vadose	Cell19-Square47-S-3-4-210618	6/18/2021	34.1	--
Cell 19	Vadose	Cell19-Square73-S-3-4-210618	6/18/2021	48.1	--
Cell 19	Vadose	Cell19-Square17-S-3-4-210618	6/18/2021	8.92	J
Cell 19	Vadose	Cell19-Square168-S-3-4-210618	6/18/2021	6.54	J
Cell 19	Vadose	Cell19-104-S-3-4-211005	10/5/2021	7.70	J
Cell 19	Vadose	Cell19-77-S-3-4-211005	10/5/2021	10.4	--
Cell 19	Vadose	Cell19-80-S-3-4-211005	10/5/2021	11.5	--
Cell 19	Vadose	Cell19-114-S-3-4-211006	10/6/2021	15.3	--
Cell 19	Vadose	Cell19-Square83-S-3-4-211213	12/13/2021	6.37	J
Cell 19	Vadose	Cell19-Square144-S-3-4-211213	12/13/2021	6.20	J
Cell 19	Vadose	Cell19-Square27-S-3-4-211214	12/14/2021	14.4	--
Cell 19	Vadose	Cell19-Square128-S-3-4-211214	12/14/2021	6.32	J
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	16.9	--
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	8.54	J
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	8.62	J
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	10.4	--
Cell 19	Vadose	Cell19-115-S-3-4-220607	6/7/2022	6.33	J
Cell 19	Vadose	Cell19-149-S-3-4-220607	6/7/2022	4.47	J
Cell 19	Vadose	Cell19-203-S-3-4-220607	6/7/2022	5.06	J
Cell 19	Vadose	Cell19-96-S-3-4-220607	6/7/2022	3.75	J
Cell 19	adose Resamp	Cell19-Square186-S-3-4-20230831	8/31/2023	5.44	U
Cell 19	adose Resamp	Cell19-Square35-S-3-4-20230831	8/31/2023	5.49	U
Cell 19	adose Resamp	Cell19-Square51-S-3-4-20230831	8/31/2023	12.8	--
Cell 19	adose Resamp	Cell19-Square97-S-3-4-20230831	8/31/2023	5.56	U
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	15.9	--
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	24.4	--
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	4.97	U
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	12.3	--
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	4.97	U
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	4.96	U
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	5.72	J

Table 3
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			Constituent Units Part 29 Closure Criteria	Chloride mg/kg 600	
Landfarm Cell	**Zone**	**Sample ID**	**Sampling Date**	**Result**	**Qualifier**
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	7.67	J
Cell 19	Vadose	Cell 19-Square 119-S-3-4-20230512	12/5/2023	10.9	--
Cell 19	Vadose	Cell 19-Square 31-S-3-4-20230512	12/5/2023	5.86	J
Cell 19	Vadose	Cell 19-Square 71-S-3-4-20230512	12/5/2023	39.3	--
Cell 19	Vadose	Cell 19-Square 75-S-3-4-20230512	12/5/2023	13.2	--
Cell 19	Vadose	Cell19-Square140-S-3-4-240124	1/24/2024	5.99	J
Cell 19	Vadose	Cell19-Square120-S-3-4-240124	1/24/2024	9.59	J
Cell 19	Vadose	Cell19-Square118-S-3-4-240124	1/24/2024	5.05	U
Cell 19	Vadose	Cell19-Square 2-S-3-4-240430	4/30/2024	8.69	J
Cell 19	Vadose	Cell19-Square 32-S-3-4-240430	4/30/2024	36.0	--
Cell 19	Vadose	Cell19-Square 54-S-3-4-240430	4/30/2024	6.31	J
Cell 19	Vadose	Cell19-Square 65-S-3-4-240430	4/30/2024	21.2	--
Cell 19	Vadose	Cell19-Square98-S-3-4-240124	1/24/2024	5.24	J
Cell 20	Vadose	C20-Sq81-S-3-4-180313	3/13/2018	8.64	--
Cell 20	Vadose	Cell20-Square110-S-3-4-180314	3/14/2018	23.30	--
Cell 20	Vadose	Cell20-Square136-S-3-4-180314	3/14/2018	9.80	--
Cell 20	Vadose	Cell20-Square161-S-3-4-180314	3/14/2018	31.70	--
Cell 20	Vadose	Cell20-Square118-S-3-4-180926	9/26/2018	5.04	UB
Cell 20	Vadose	Cell20-Square204-S-3-4-180926	9/26/2018	3.95	UB
Cell 20	Vadose	Cell20-Square59-S-3-4-180926	9/26/2018	5.94	UB
Cell 20	Vadose	Cell20-Square64-S-3-4-180926	9/26/2018	30.4	--
Cell 20	Vadose	Cell 20-square79-S-2-3-190618	6/18/2019	9.78	--
Cell 20	Vadose	Cell20-Square102-S-2-3-190723	7/23/2019	1.58	J
Cell 20	Vadose	Cell20-Square179-S-2-3-190723	7/23/2019	2.27	J
Cell 20	Vadose	Cell20-Square193-S-2-3-190723	7/23/2019	22.9	--
Cell 20	Vadose	Cell20-Square96-S-2-3-190723	7/23/2019	0.531	U
Cell 20	Vadose	Cell20-Square 42-S-2-3-191202	12/02/2019	16.5	B
Cell 20	Vadose	Cell20-Square-105-S-2-3-200427	4/27/2020	3.48	J
Cell 20	Vadose	Cell20-Square-187-S-2-3-200427	4/27/2020	2.93	J
Cell 20	Vadose	Cell20-Square-91-S-2-3-200427	4/27/2020	14.4	--
Cell 20	Vadose	Cell20-Square-99-S-2-3-200427	4/27/2020	5.11	--
Cell 20	Vadose	Cell20-Square152-S-2-3-200625	6/25/2020	5.58	J
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	8/7/2020	13.6	--
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	8/7/2020	4.17	J
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	8/7/2020	2.45	J
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	8/7/2020	19.0	--
Cell 20	Vadose	Cell20-Square92-S-2-3-201210	12/10/2020	18.2	--
Cell 20	Vadose	Cell20-132-S-3-4-211005	10/5/2021	8.12	J
Cell 20	Vadose	Cell20-47-S-3-4-211005	10/5/2021	9.57	J
Cell 20	Vadose	Cell20-51-S-3-4-211005	10/5/2021	14.1	--
Cell 20	Vadose	Cell20-157-S-3-4-211005	10/5/2021	10.7	--
Cell 20	Vadose	Cell20-Square14-S-3-4-211214	12/14/2021	7.26	J
Cell 20	Vadose	Cell20-Square18-S-3-4-211214	12/14/2021	6.77	J
Cell 20	Vadose	Cell20-Square41-S-3-4-211214	12/14/2021	14.2	--
Cell 20	Vadose	Cell20-Square170-S-3-4-211214	12/14/2021	6.05	J
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	4.36	J
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	15.8	--
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	7.81	J
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	3.50	U
Cell 20	Vadose	Cell20-111-S-3-4-220607	6/7/2022	15.2	--
Cell 20	Vadose	Cell20-176-S-3-4-220607	6/7/2022	4.26	J
Cell 20	Vadose	Cell20-59-S-3-4-220607	6/7/2022	71.3	--
Cell 20	Vadose	Cell20-71-S-3-4-220607	6/7/2022	36.2	--
Cell 20	Vadose	Cell20-38-S-3-4-220726	7/26/2022	3.52	U
Cell 20	Vadose	Cell20-58-S-3-4-220726	7/26/2022	3.51	U
Cell 20	Vadose	Cell20-60-S-3-4-220726	7/26/2022	14.8	--
Cell 20	Vadose	Cell20-80-S-3-4-220726	7/26/2022	12.9	--
Cell 20	Vadose	Cell 20-Square 113-S-3-4-20230512	12/5/2023	6.29	J
Cell 20	Vadose	Cell 20-Square 131-S-3-4-20230512	12/5/2023	12.4	--
Cell 20	Vadose	Cell 20-Square 134-S-3-4-20230512	12/5/2023	5.97	U
Cell 20	Vadose	Cell 20-Square 4-S-3-4-20230512	12/5/2023	5.24	U
Cell 20	Vadose	Cell 20-Square 110-S-3-4-240125	1/25/2024	26.9	--
Cell 20	Vadose	Cell 20-Square 130-S-3-4-240125	1/25/2024	16.8	--
Cell 20	Vadose	Cell20-Square 10-S-3-4-240430	4/30/2024	5.53	U

Table 3
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			Constituent Units Part 29 Closure Criteria	Chloride mg/kg 600	
Landfarm Cell	Zone	Sample ID	Sampling Date	Result	Qualifier
Cell 20	Vadose	Cell20-Square 31-S-3-4-240430	4/30/2024	17.4	--
Cell 20	Vadose	Cell20-Square 63-S-3-4-240430	4/30/2024	6.05	U
Cell 20	Vadose	Cell20-Square 181-S-3-4-240430	4/30/2024	10.7	J
Cell 21	Vadose	Cell21-Square135-S-3-4-180314	3/14/2018	1.51	J
Cell 21	Vadose	Cell21-Square176-S-3-4-180314	3/14/2018	2.50	J
Cell 21	Vadose	Cell21-Square57-S-3-4-180314	3/14/2018	2.72	J
Cell 21	Vadose	Cell21-Square80-S-3-4-180314	3/14/2018	1.04	J
Cell 21	Vadose	Cell21-Square70-S-3-4-180925	9/25/2018	3.94	UBJ
Cell 21	Vadose	Cell21-Square30-S-3-4-180926	9/26/2018	3.96	UB
Cell 21	Vadose	Cell21-Square33-S-3-4-180926	9/26/2018	4.00	UB
Cell 21	Vadose	Cell21-Square36-S-3-4-180926	9/26/2018	3.96	UB
Cell 21	Vadose	Cell 21-square196-S-2-3-190618	6/18/2019	4.33	--
Cell 21	Vadose	Cell21-Square107-S-2-191203	12/03/2019	2.70	JB
Cell 21	Vadose	Cell21-Square-14-S-2-3-200428	4/28/2020	2.66	J
Cell 21	Vadose	Cell21-Square-155-S-2-3-200428	4/28/2020	2.63	J
Cell 21	Vadose	Cell21-Square-47-S-2-3-200428	4/28/2020	2.46	J
Cell 21	Vadose	Cell21-Square-76-S-2-3-200428	4/28/2020	26.2	--
Cell 21	Vadose	Cell21-Square73-S-2-3-200625	6/25/2020	4.04	J
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	8/7/2020	4.42	J
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	8/7/2020	4.25	J
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	8/7/2020	3.14	J
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	8/7/2020	2.25	J
Cell 21	Vadose	Cell21-Square40-S-2-3-201210	12/10/2020	8.46	J
Cell 21	Vadose	Cell21-Square117-S-3-4-211214	12/14/2021	8.18	J
Cell 21	Vadose	Cell21-Square18-S-3-4-211214	12/14/2021	8.13	J
Cell 21	Vadose	Cell21-Square37-S-3-4-211214	12/14/2021	7.40	J
Cell 21	Vadose	Cell21-Square90-S-3-4-211214	12/14/2021	5.44	J
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	3.56	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	3.60	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	3.56	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	3.53	U
Cell 21	Vadose	Cell21-156-S-3-4-220606	6/6/2022	3.64	J
Cell 21	Vadose	Cell21-41-S-3-4-220606	6/6/2022	11.0	--
Cell 21	Vadose	Cell21-46-S-3-4-220606	6/6/2022	6.65	J
Cell 21	Vadose	Cell21-94-S-3-4-220606	6/6/2022	4.13	J
Cell 21	Vadose	Cell21-20-S-3-4-220726	7/26/2022	6.15	J
Cell 21	Vadose	Cell21-40-S-3-4-220726	7/26/2022	3.53	U
Cell 21	Vadose	Cell21-42-S-3-4-220727	7/27/2022	11.6	--
Cell 21	Vadose	Cell21-62-S-3-4-220727	7/27/2022	15.3	--
Cell 21	adose Resamp	Cell21-Square125-S-3-4-20230829	8/29/2023	6.16	U
Cell 21	adose Resamp	Cell21-Square143-S-3-4-20230829	8/29/2023	5.69	U
Cell 21	adose Resamp	Cell21-Square139-S-3-4-20230830	8/30/2023	6.24	U
Cell 21	adose Resamp	Cell21-Square99-S-3-4-20230830	8/30/2023	6.51	U
Cell 21	Vadose	Cell 21-Square 100-S-3-4-20230612	12/6/2023	5.49	U
Cell 21	Vadose	Cell 21-Square 104-S-3-4-20230612	12/6/2023	5.29	U
Cell 21	Vadose	Cell 21-Square 78-S-3-4-20230612	12/6/2023	5.34	U
Cell 21	Vadose	Cell 21-Square 98-S-3-4-20230612	12/6/2023	12.2	--
Cell 21	Vadose	Cell 21 Square 120-S-3-4-240508	5/8/2024	13.6	--
Cell 21	Vadose	Cell 21 Square 124-S-3-4-240508	5/8/2024	0.397	U
Cell 21	Vadose	Cell 21 Square 126-S-3-4-240508	5/8/2024	2.51	J
Cell 21	Vadose	Cell 21 Square98-S-3-4-240509	5/9/2024	11.6	--
Cell 21	Vadose	Cell21-Square194-S-3-4-240717	7/17/2024	16.6	--
Cell 25	Vadose	C25-Sq115-S-3-4-180314	3/14/2018	0.63	J
Cell 25	Vadose	C25-Sq192-S-3-4-180314	3/14/2018	1.09	J
Cell 25	Vadose	C25-Sq57-S-3-4-180314	3/14/2018	4.01	U
Cell 25	Vadose	C25-Sq86-S-3-4-180314	3/14/2018	0.64	J
Cell 25	Vadose	Cell25-Square173-S-3-4-180925	9/25/2018	3.98	UBJ
Cell 25	Vadose	Cell25-Square208-S-3-4-180925	9/25/2018	3.99	UBJ
Cell 25	Vadose	Cell25-Square68-S-3-4-180925	9/25/2018	3.97	UBJ
Cell 25	Vadose	Cell25-Square9-S-3-4-180925	9/25/2018	19.2	J
Cell 25	Vadose	Cell25-square39-S-2-3-190619	6/19/2019	0.53	U
Cell 25	Vadose	Cell25-Square-6-S-2-3-190724	7/24/2019	1.21	J
Cell 25	Vadose	Cell25-Square-64-S-2-3-190724	7/24/2019	0.532	U
Cell 25	Vadose	Cell25-Square-85-S-2-3-190724	7/24/2019	1.51	J

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			Constituent Units Part 29 Closure Criteria	Chloride mg/kg 600	
Landfarm Cell	**Zone**	**Sample ID**	**Sampling Date**	**Result**	**Qualifier**
Cell 25	Vadose	Cell25-Square-93-S-2-3-190724	7/24/2019	0.946	J F2
Cell 25	Vadose	Cell25-Square108-S-2-191203	12/03/2019	2.27	JB
Cell 25	Vadose	Cell25-Square-162-S-2-3-200429	4/29/2020	2.27	J
Cell 25	Vadose	Cell25-Square-179-S-2-3-200429	4/29/2020	2.24	J
Cell 25	Vadose	Cell25-Square-187-S-2-3-200429	4/29/2020	2.24	J
Cell 25	Vadose	Cell25-Square-85-S-2-3-200429	4/29/2020	2.58	J
Cell 25	Vadose	Cell25-Square106-S-2-3-200625	6/25/2020	4.77	J
Cell 25	Vadose	Cell25-Square107-S-2-3-201210	12/10/2020	8.93	J
Cell 25	Vadose	Cell25-190-S-3-4-211006	10/6/2021	5.77	J
Cell 25	Vadose	Cell25-21-S-3-4-211007	10/7/2021	16.2	--
Cell 25	Vadose	Cell25-35-S-3-4-211007	10/7/2021	6.00	J
Cell 25	Vadose	Cell25-97-S-3-4-211007	10/7/2021	3.55	U
Cell 25	Vadose	Cell25-Square33-S-3-4-211214	12/14/2021	13.7	--
Cell 25	Vadose	Cell25-Square70-S-3-4-211214	12/14/2021	8.15	J
Cell 25	Vadose	Cell25-Square176-S-3-4-211214	12/14/2021	5.31	J
Cell 25	Vadose	Cell25-Square190-S-3-4-211214	12/14/2021	4.24	J
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	4.80	J
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	3.58	J
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	3.57	J
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	3.48	U
Cell 25	Vadose	Cell25-108-S-3-4-220606	6/6/2022	3.86	J
Cell 25	Vadose	Cell25-188-S-3-4-220606	6/6/2022	20.5	--
Cell 25	Vadose	Cell25-26-S-3-4-220606	6/6/2022	6.73	J
Cell 25	Vadose	Cell25-83-S-3-4-220606	6/6/2022	14.2	--
Cell 25	Vadose	Cell 25-Square 113-S-3-4-20230712	12/7/2023	5.17	U
Cell 25	Vadose	Cell 25-Square 56-S-3-4-20230712	12/7/2023	5.43	U
Cell 25	Vadose	Cell 25-Square 184-S-3-4-20230712	12/7/2023	5.45	J
Cell 25	Vadose	Cell 25-Square 22-S-3-4-20230712	12/7/2023	5.64	U
Cell 25	Vadose	Cell25-Square81-S-3-4-240509	5/9/2024	2.81	J
Cell 25	Vadose	Cell25-Square120-S-3-4-240509	5/9/2024	3.54	J
Cell 25	Vadose	Cell25-Square151-S-3-4-240509	5/9/2024	3.73	J
Cell 25	Vadose	Cell25-Square184-S-3-4-240509	5/9/2024	5.37	--
Cell 26	Vadose	Cell26-Square153-S-3-4-180314	3/14/2018	2.61	J
Cell 26	Vadose	Cell26-Square185-S-3-4-180314	3/14/2018	1.01	J
Cell 26	Vadose	Cell26-Square22-S-3-4-180314	3/14/2018	1.48	J
Cell 26	Vadose	Cell26-Square74-S-3-4-180314	3/14/2018	1.15	J
Cell 26	Vadose	Cell26-Square127-S-3-4-180925	9/25/2018	3.98	UBJ
Cell 26	Vadose	Cell26-Square191-S-3-4-180925	9/25/2018	3.98	UBJ
Cell 26	Vadose	Cell26-Square22-S-3-4-180925	9/25/2018	5.74	UBJ
Cell 26	Vadose	Cell26-Square29-S-3-4-180925	9/25/2018	51.6	J
Cell 26	Vadose	Cell26-square26-S-2-3-190619	6/19/2019	2.32	J
Cell 26	Vadose	Cell 26-Square169-S-2-3-190723	7/23/2019	2.05	J
Cell 26	Vadose	Cell 26-Square69-S-2-3-190723	7/23/2019	0.531	U
Cell 26	Vadose	Cell26-Square115-S-2-3-190724	7/24/2019	2.01	J
Cell 26	Vadose	Cell26-Square198-S-2-3-190724	7/24/2019	0.805	J
Cell 26	Vadose	Cell26-Square207-S-2-191203	12/03/2019	3.48	JB
Cell 26	Vadose	Cell26-Square-110-S-2-3-200429	4/29/2020	21.6	--
Cell 26	Vadose	Cell26-Square-167-S-2-3-200429	4/29/2020	2.35	J
Cell 26	Vadose	Cell26-Square-169-S-2-3-200429	4/29/2020	2.40	J
Cell 26	Vadose	Cell26-Square-79-S-2-3-200429	4/29/2020	2.52	J
Cell 26	Vadose	Cell26-Square66-S-2-3-200625	6/25/2020	4.81	J
Cell 26	Vadose	Cell26-Square36-S-2-3-201210	12/10/2020	9.26	J
Cell 26	Vadose	Cell26-101-S-3-4-211007	10/7/2021	3.54	U
Cell 26	Vadose	Cell26-129-S-3-4-211007	10/7/2021	3.96	J
Cell 26	Vadose	Cell26-158-S-3-4-211007	10/7/2021	6.35	J
Cell 26	Vadose	Cell26-49-S-3-4-211007	10/7/2021	7.84	J
Cell 26	Vadose	Cell26-Square8-S-3-4-211215	12/15/2021	5.64	J
Cell 26	Vadose	Cell26-Square74-S-3-4-211215	12/15/2021	7.17	J
Cell 26	Vadose	Cell26-Square183-S-3-4-211215	12/15/2021	7.71	J
Cell 26	Vadose	Cell26-Square210-S-3-4-211215	12/15/2021	5.20	J
Cell 26	Vadose	Cell26-111-S-3-4-220606	6/6/2022	4.25	J
Cell 26	Vadose	Cell26-168-S-3-4-220606	6/6/2022	3.58	U
Cell 26	Vadose	Cell26-65-S-3-4-220606	6/6/2022	3.51	U
Cell 26	Vadose	Cell26-80-S-3-4-220606	6/6/2022	10.8	--

Table 3
2018 – 2024 Vadose Zone Analytical Results: Chloride
Site Characterization & Soil Remediation Work Plan
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

			Constituent Units Part 29 Closure Criteria	Chloride mg/kg 600	
Landfarm Cell	Zone	Sample ID	Sampling Date	Result	Qualifier
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	4.99	U
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	4.98	U
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	5.00	U
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	4.95	U
Cell 26	Vadose	Cell 26-Square 172-S-3-4-20230712	12/7/2023	5.55	J
Cell 26	Vadose	Cell 26-Square 19-S-3-4-20230712	12/7/2023	13.4	--
Cell 26	Vadose	Cell 26-Square 54-S-3-4-20230712	12/7/2023	5.34	U
Cell 26	Vadose	Cell 26-Square 57-S-3-4-20230712	12/7/2023	6.15	J
Cell 26	Vadose	Cell26-Square41-S-3-4-240509	5/9/2024	2.10	J
Cell 26	Vadose	Cell26-Square85-S-3-4-240509	5/9/2024	5.34	--
Cell 26	Vadose	Cell26-Square151-S-3-4-240509	5/9/2024	2.04	J
Cell 26	Vadose	Cell26-Square175-S-3-4-240509	5/9/2024	2.74	J

Notes:

1. Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.
2. Detected values highlighted in grey exceed the 19.15.29 NMAC closure criteria for soils impacted by a release.

Acronyms and Abbreviations:

-- = not applicable or available
ID = identification
mg/kg = milligrams per kilogram
MQL = method quantitation limit
MS/MSD = matrix spike/matrix spike duplicate
NMAC = New Mexico Administrative Code
SDL = sample detection limit

Qualifiers:

B = The compound was found in the blank and the sample.
F2 = MS/MSD relative percent difference exceeds control limits.
J = Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U = Analyte was not detected at or above the SDL.

Table 4
October 2024 Vadose Zone Analytical Results
Site Characterization & Soil Remediation Work Plan
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

		Constituent	DRO		GRO		ORO		TPH[a]		Benzene		Toluene		Ethylbenzene		Xylenes, Total		BTEX[b]		Chloride	
		Method	SW846 8015D		SW846 8015D		SW846 8015D		--		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		--		USEPA 300.0	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Part 29 Closure Criteria	--		--		--		100		10		--		--		--		50		600	
Cell	Zone	Event	Sample ID	Sampling Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Re-Sample	Cell17-Square22-S-3-4-241008	10/8/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1210	--
Cell 17	Vadose	Re-Sample	Cell17-Square22-S-4-5-241008	10/8/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1320	--
Cell 17	Vadose	Re-Sample	Cell17-Square23-S-3-4-241008	10/8/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	111	--
Cell 17	Vadose	Re-Sample	Cell17-Square23-S-4-5-241008	10/8/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	120	--
Cell 17	Vadose	Re-Sample	Cell17-Square64-S-3-4-241008	10/8/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	581	--
Cell 17	Vadose	Re-Sample	Cell17-Square64-S-4-5-241008	10/8/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	369	--
Cell 17	Vadose	Re-Sample	Cell17-Square66-S-3-4-241009	10/9/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	722	--
Cell 17	Vadose	Re-Sample	Cell17-Square66-S-4-5-241009	10/9/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	576	--
Cell 17	Vadose	Re-Sample	Cell17-Square26-S-3-4-241009	10/9/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	220	--
Cell 17	Vadose	Re-Sample	Cell17-Square26-S-4-5-241009	10/9/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	182	--
Cell 17	Vadose	Re-Sample	Cell17-Square5-S-3-4-241009	10/9/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	789	--
Cell 17	Vadose	Re-Sample	Cell17-Square5-S-4-5-241009	10/9/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	577	--
Cell 17	Vadose	Additional Sampling	Cell17-Square10-S-3-4-241009	10/9/2024	2.48	U	2.68	U	8.47	U	8.47	--	0.000409	U	0.00129	U	0.000325	U	0.000463	U	0.00129	--	8.71	J
Cell 17	Vadose	Re-Sample	Cell17-Square200-S-3-4-241009	10/9/2024	2.51	U	2.64	U	8.57	U	8.57	--	--	--	--	--	--	--	--	--	--	--	--	--
Cell 17	Vadose	Re-Sample	Cell17-Square200-S-4-5-241009	10/9/2024	3.15	JB	2.75	U	8.68	U	8.68	--	--	--	--	--	--	--	--	--	--	--	--	--
Cell 17	Vadose	Re-Sample	Cell17-Square204-S-3-4-241009	10/9/2024	5.22	JB	2.62	U	12.6	U	5.22	--	--	--	--	--	--	--	--	--	--	--	--	--
Cell 17	Vadose	Re-Sample	Cell17-Square204-S-4-5-241009	10/9/2024	21.8	JB	2.70	U	36.7	J	58.5	--	--	--	--	--	--	--	--	--	--	--	--	--
Cell 17	Vadose	Re-Sample	Cell17-Square118-S-3-4-241010	10/10/2024	10.0	JB	49.2	--	16.9	J	76.1	--	--	--	--	--	--	--	--	--	--	--	--	--
Cell 17	Vadose	Re-Sample	Cell17-Square118-S-4-5-241010	10/10/2024	2.55	U	35.9	--	8.71	U	35.9	--	--	--	--	--	--	--	--	--	--	--	--	--
Cell 17	Vadose	Additional Sampling	Cell17-Square167-S-3-4-241010	10/10/2024	4.23	JB	2.87	U	13.4	U	4.2	--	0.000434	U	0.00138	U	0.000346	U	0.000492	U	0.00138	--	5.51	U
Cell 17	Vadose	Additional Sampling	Cell17-Square41-S-3-4-241010	10/10/2024	3.59	U	2.64	U	12.3	U	12.3	--	0.000406	U	0.00129	U	0.000323	U	0.000460	U	0.00129	--	4.88	U
Cell 17	Vadose	Additional Sampling	Cell17-Square208-S-3-4-241010	10/10/2024	11.60	JB	70.5	--	14.8	J	96.9	--	0.0219	U	0.06940	U	0.0174	U	0.024800	U	0.06940	--	5.42	U
Cell 18	Vadose	Additional Sampling	Cell18-Square85-S-3-4-241008	10/8/2024	7.03	JB	2.71	U	11.3	J	18.3	--	0.00041	U	0.00130	U	0.000326	U	0.000464	U	0.00130	--	5.26	U
Cell 18	Vadose	Additional Sampling	Cell18-Square89-S-3-4-241008	10/8/2024	6.39	JB	2.75	U	11.1	J	17.5	--	0.000423	U	0.00134	U	0.000337	U	0.000479	U	0.00134	--	5.32	U
Cell 18	Vadose	Re-Sample	Cell18-Square131-S-3-4-241008	10/8/2024	2.89	JB	2.73	U	8.73	U	2.89	--	--	--	--	--	--	--	--	--	--	--	--	--
Cell 18	Vadose	Re-Sample	Cell18-Square131-S-4-5-241008	10/8/2024	3.05	JB	2.79	U	8.94	U	3.1	--	--	--	--	--	--	--	--	--	--	--	--	--
Cell 18	Vadose	Re-Sample	Cell18-Square179-S-3-4-241008	10/8/2024	2.48	U	2.67	U	8.46	U	8.46	--	--	--	--	--	--	--	--	--	--	--	--	--
Cell 18	Vadose	Re-Sample	Cell18-Square179-S-4-5-241008	10/8/2024	2.71	JB	2.70	U	8.86	U	8.86	--	--	--	--	--	--	--	--	--	--	--	--	--
Cell 18	Vadose	Additional Sampling	Cell18-Square188-S-3-4-241008	10/8/2024	3.78	JB	2.92	U	9.44	U	9.44	--	0.000450	U	0.00142	U	0.000358	U	0.000509	U	0.00142	--	5.71	U
Cell 19	Vadose	Re-Sample	Cell19-Square119-S-3-4-241008	10/8/2024	12.5	B	3.19	U	24.4	--	36.9	--	--	--	--	--	--	--	--	--	--	--	--	--
Cell 19	Vadose	Additional Sampling	Cell19-Square87-S-3-4-241008	10/8/2024	8.93	JB	2.79	U	13.4	J	22.3	--	0.000427	U	0.00135	U	0.00034	U	0.000550	J	0.000550	--	5.93	J
Cell 21	Vadose	Additional Sampling	Cell21-Square190-S-3-4-241011	10/11/2024	3.50	JH	79.10	--	11.4	JH	94.0	--	0.000416	U	0.00132	U	0.000331	U	0.000471	U	0.00132	--	5.46	U
Cell 21	Vadose	Additional Sampling	Cell21-Square150-S-3-4-241011	10/11/2024	6.30	J	76.7	--	20.8	--	103.8	--	0.000424	U	0.00134	U	0.000337	U	0.000479	U	0.00134	--	5.38	J
Cell 21	Vadose	Re-Sample	Cell21-Square23-S-3-4-241011	10/11/2024	2.92	J	63.0	--	10.5	J	76.4	--	--	--	--	--	--	--	--	--	--	--	--	--
Cell 21	Vadose	Re-Sample	Cell21-Square23-S-4-5-241011	10/11/2024	2.61	U	76.4	--	8.92	U	76.4	--	--	--	--	--	--	--	--	--	--	--	--	--
Cell 25	Vadose	Re-Sample	Cell25-Square3-S-3-4-241011	10/11/2024	6.92	U	86.5	--	23.6	U	86.5	--	--	--	--	--	--	--	--	--	--	--	--	--
Cell 25	Vadose	Re-Sample	Cell25-Square3-S-4-5-241011	10/11/2024	3.52	U	36.4	p	12.0	U	36.4	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

[a] TPH is the sum of detected DRO, GRO, and ORO fractions. If all results are non-detect, the highest non-detect value is presented.

[a] BTEX is the sum of detected benzene, toluene, ethylbenzene, and xylenes. If all results are non-detect, the highest non-detect value is presented.

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

2. Detected values highlighted in grey exceed the 19.15.29 NMAC closure criteria for soils impacted by a release.

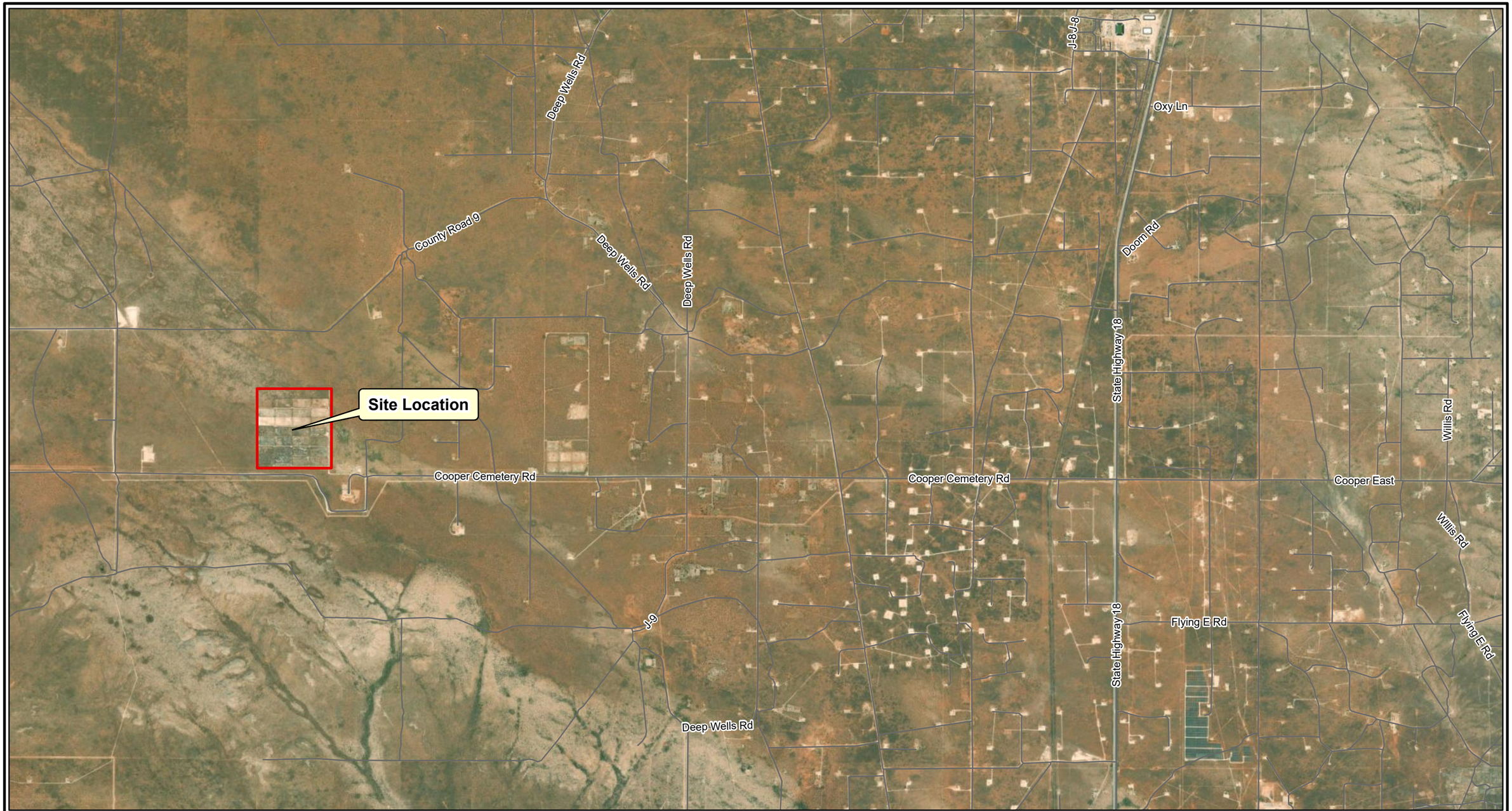
Acronyms and Abbreviations:

-- = 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
SW846 = "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and Its Updates
TPH = total petroleum hydrocarbons
USEPA = U.S. Environmental Protection Agency

Qualifiers:

B = The compound was found in the blank and the sample.
H = Sample was prepared or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J = Result is less than the MQL but greater than or equal to the SDL, and the concentration is an estimated value.
p = The relative percent difference between the primary and confirmation column/detector is greater than 40 percent. The lower value has been reported.
U = Analyte was not detected at or above the SDL.

Figures



LEGEND

Landfarm Boundary

0 3,000 6,000

SCALE IN FEET

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM, PERMIT NM-02-0012
LEA COUNTY, NEW MEXICO
SITE CHARACTERIZATION & SOIL REMEDIATION WORK PLAN

SITE LOCATION MAP

ARCADIS

FIGURE 1

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS_PRO\2024EVENT\2023_DEC_2024EVENT.APRX SAVED: 11/7/2024 BY: VMN1306

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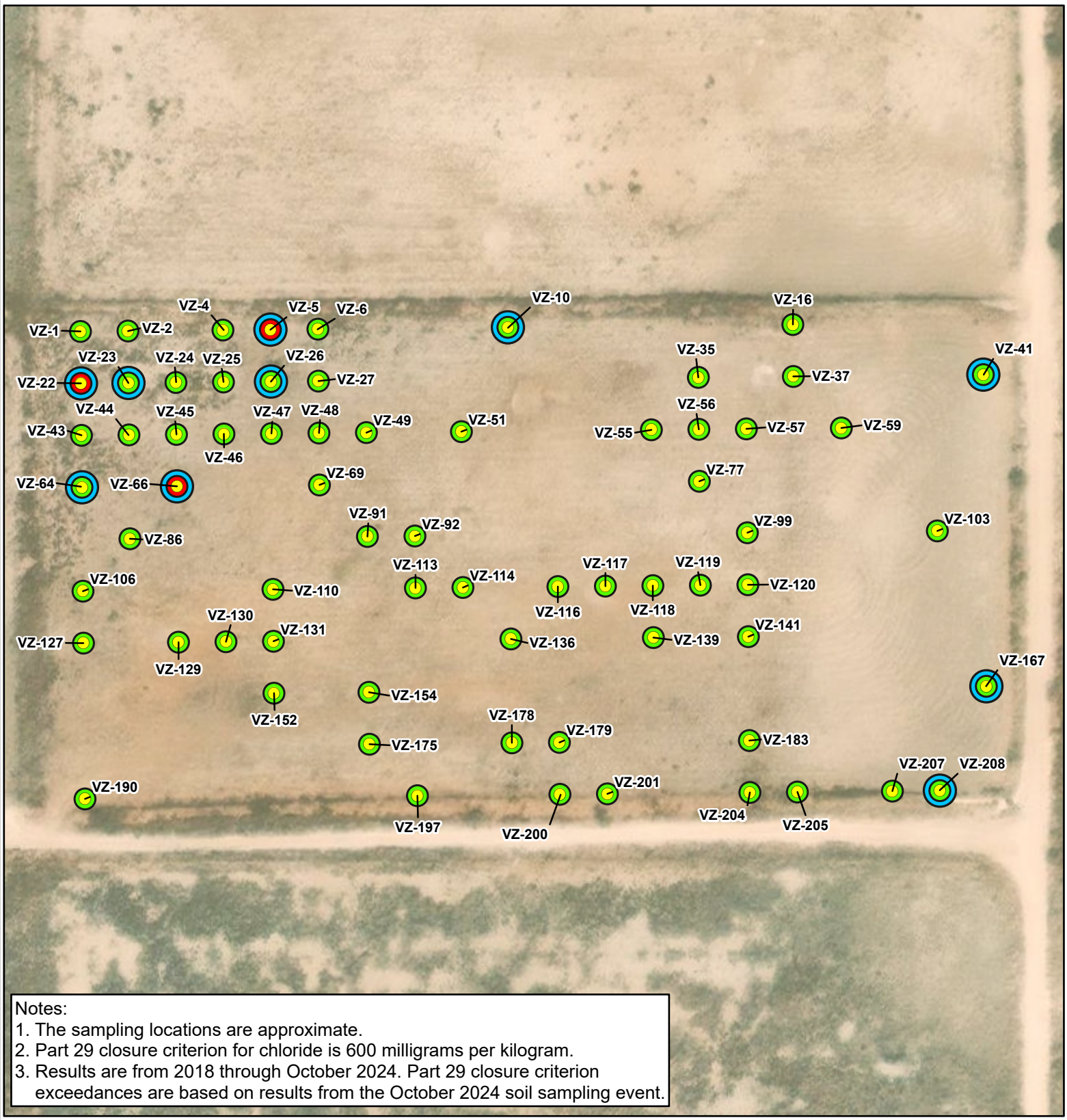


Notes:
1. The sampling locations are approximate.
2. Part 29 closure criterion for chloride is 600 milligrams per kilogram.
3. Results are from 2018 through October 2024. Part 29 closure criterion exceedances are based on results from the October 2024 soil sampling event.

LEGEND

- Vadose Zone Soil Sampling Location
- Chloride Result < Part 29 Closure Criterion
- Chloride Result > Part 29 Closure Criterion
- October 2024 Vadose Zone Soil Sampling Location

0 100 200

SCALE IN FEET

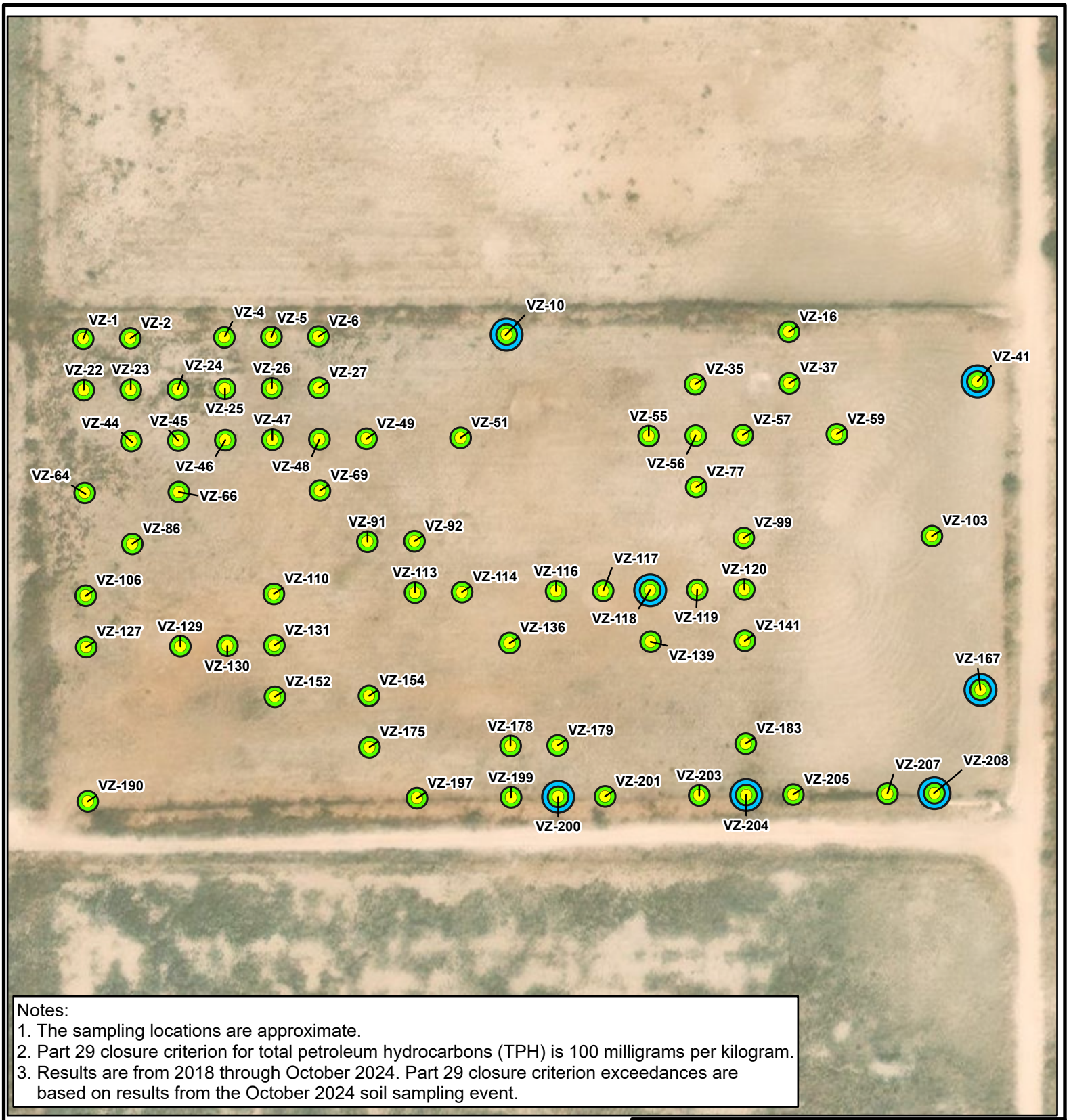
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM, PERMIT NM-02-0012
LEA COUNTY, NEW MEXICO
SITE CHARACTERIZATION & SOIL REMEDIATION WORK PLAN

CELL 17
CHLORIDE CONCENTRATIONS

ARCADIS

FIGURE
2

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS_PRO\2024EVENT\2023_DEC_2024EVENT.APRX SAVED: 11/7/2024 BY: VMN1306



Notes:
1. The sampling locations are approximate.
2. Part 29 closure criterion for total petroleum hydrocarbons (TPH) is 100 milligrams per kilogram.
3. Results are from 2018 through October 2024. Part 29 closure criterion exceedances are based on results from the October 2024 soil sampling event.

LEGEND

- Vadose Zone Soil Sampling Location
- TPH < Part 29 Closure Criterion
- October 2024 Vadose Zone Soil Sampling Location

0 100 200

SCALE IN FEET

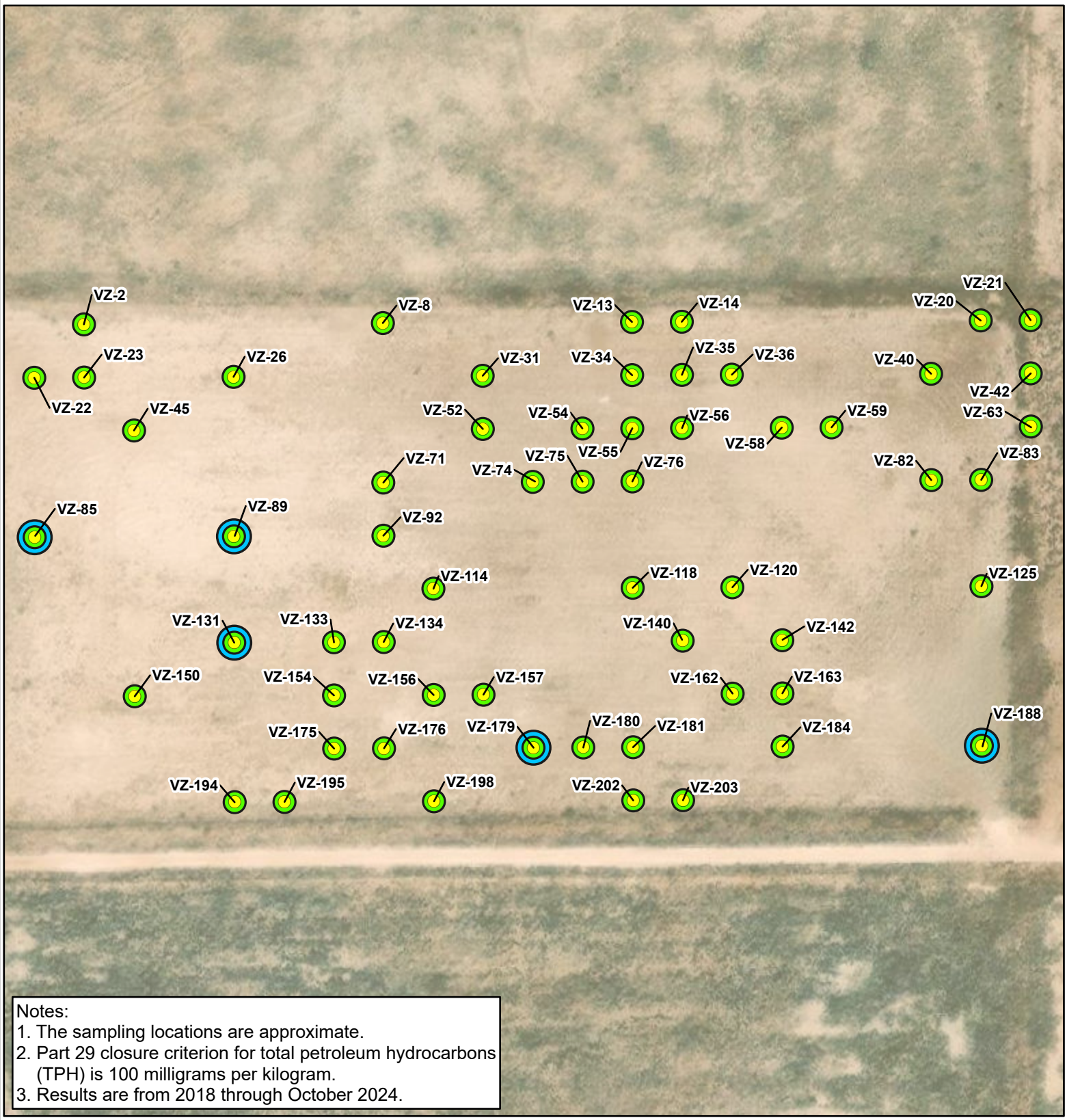
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM, PERMIT NM-02-0012
LEA COUNTY, NEW MEXICO
SITE CHARACTERIZATION & SOIL REMEDIATION WORK PLAN

CELL 17 TPH CONCENTRATIONS

ARCADIS

FIGURE
3

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS_PRO\2024EVENT\2023_DEC_2024EVENT.APRX SAVED: 11/7/2024 BY: VMN1306



Notes:
1. The sampling locations are approximate.
2. Part 29 closure criterion for total petroleum hydrocarbons (TPH) is 100 milligrams per kilogram.
3. Results are from 2018 through October 2024.

LEGEND

- Vadose Zone Soil Sampling Location
- TPH Result < Part 29 Closure Criterion
- October 2024 Vadose Zone Soil Sampling Location

0 100 200

SCALE IN FEET

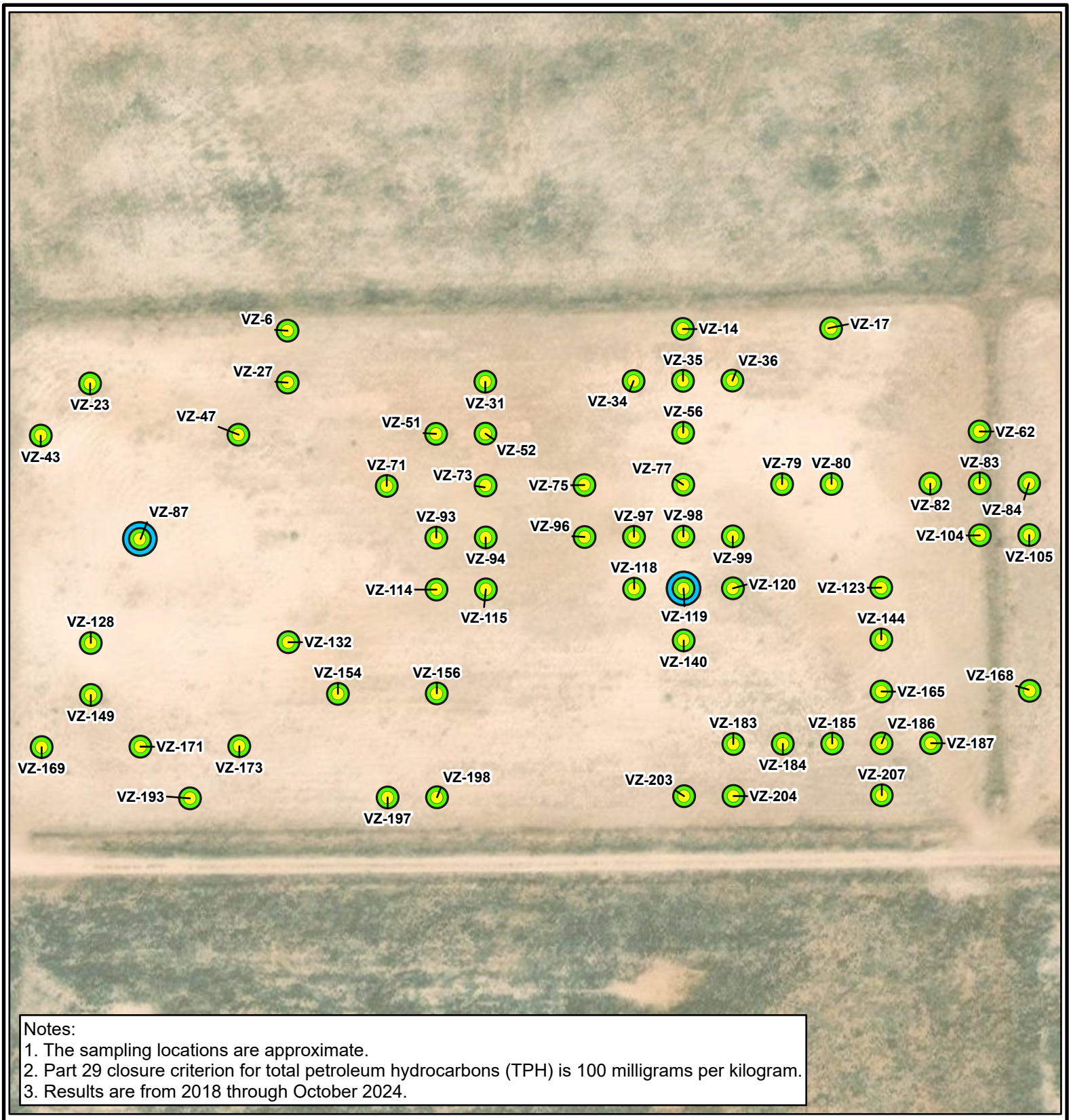
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM, PERMIT NM-02-0012
LEA COUNTY, NEW MEXICO
SITE CHARACTERIZATION & SOIL REMEDIATION WORK PLAN

CELL 18 TPH CONCENTRATIONS

ARCADIS

FIGURE
4

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS_PRO\2024EVENT\2023_DEC_2024EVENT.APRX SAVED: 11/7/2024 BY: VMN1306



Notes:
1. The sampling locations are approximate.
2. Part 29 closure criterion for total petroleum hydrocarbons (TPH) is 100 milligrams per kilogram.
3. Results are from 2018 through October 2024.

LEGEND

- Vadose Zone Soil Sampling Location
- TPH Result < Part 29 Closure Criterion
- October 2024 Vadose Zone Soil Sampling Location

0 100 200

SCALE IN FEET

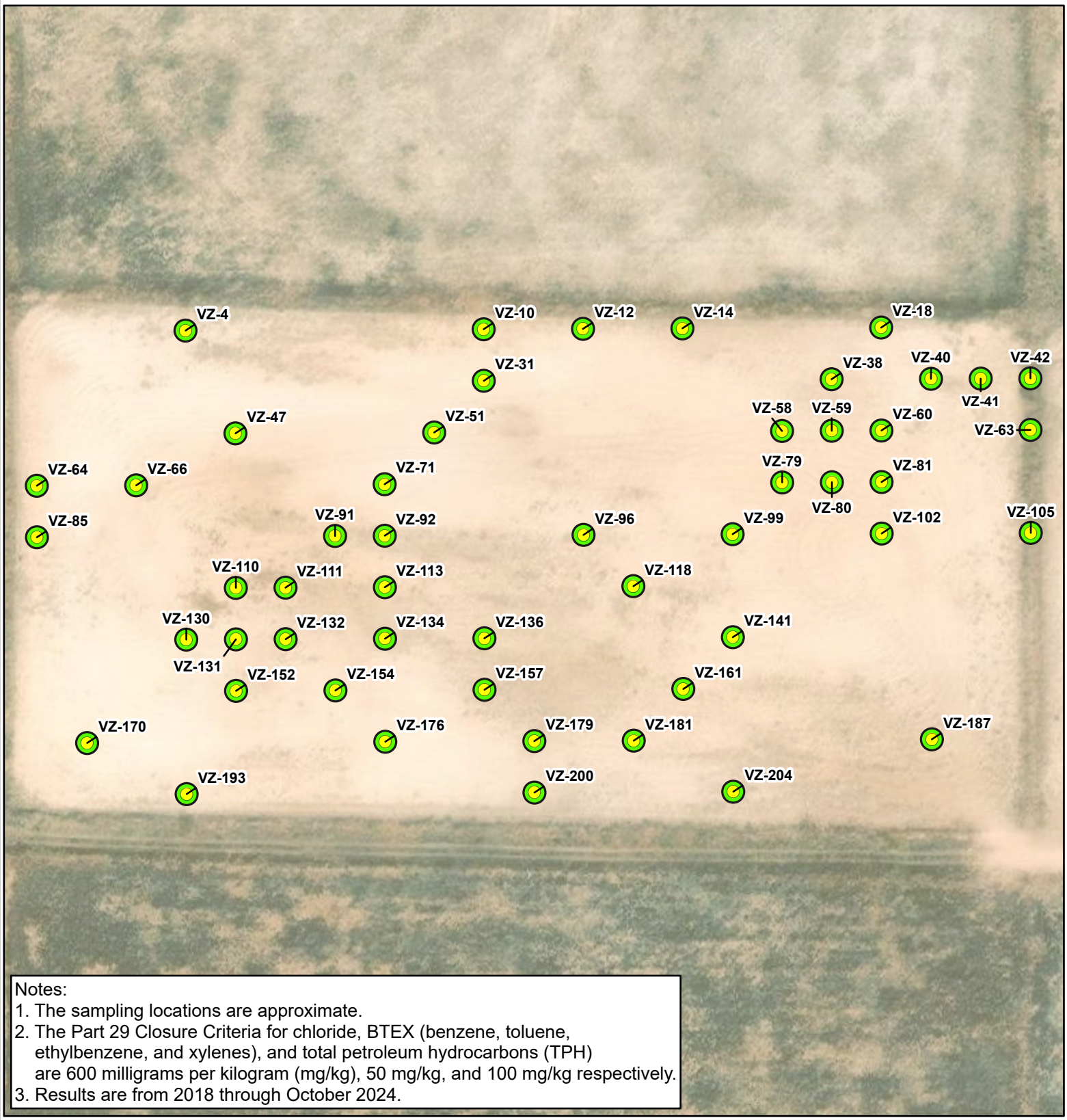
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM, PERMIT NM-02-0012
LEA COUNTY, NEW MEXICO
SITE CHARACTERIZATION & SOIL REMEDIATION WORK PLAN

CELL 19 TPH CONCENTRATIONS

ARCADIS

FIGURE
5

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS_PRO\2024EVENT\2023_DEC_2024EVENT.APRX SAVED: 11/7/2024 BY: VMN1306



Notes:
1. The sampling locations are approximate.
2. The Part 29 Closure Criteria for chloride, BTEX (benzene, toluene, ethylbenzene, and xylenes), and total petroleum hydrocarbons (TPH) are 600 milligrams per kilogram (mg/kg), 50 mg/kg, and 100 mg/kg respectively.
3. Results are from 2018 through October 2024.

LEGEND

- Vadose Zone Soil Sampling Location
- Chloride, BTEX, and TPH < Part 29 Closure Criteria

0 100 200

SCALE IN FEET

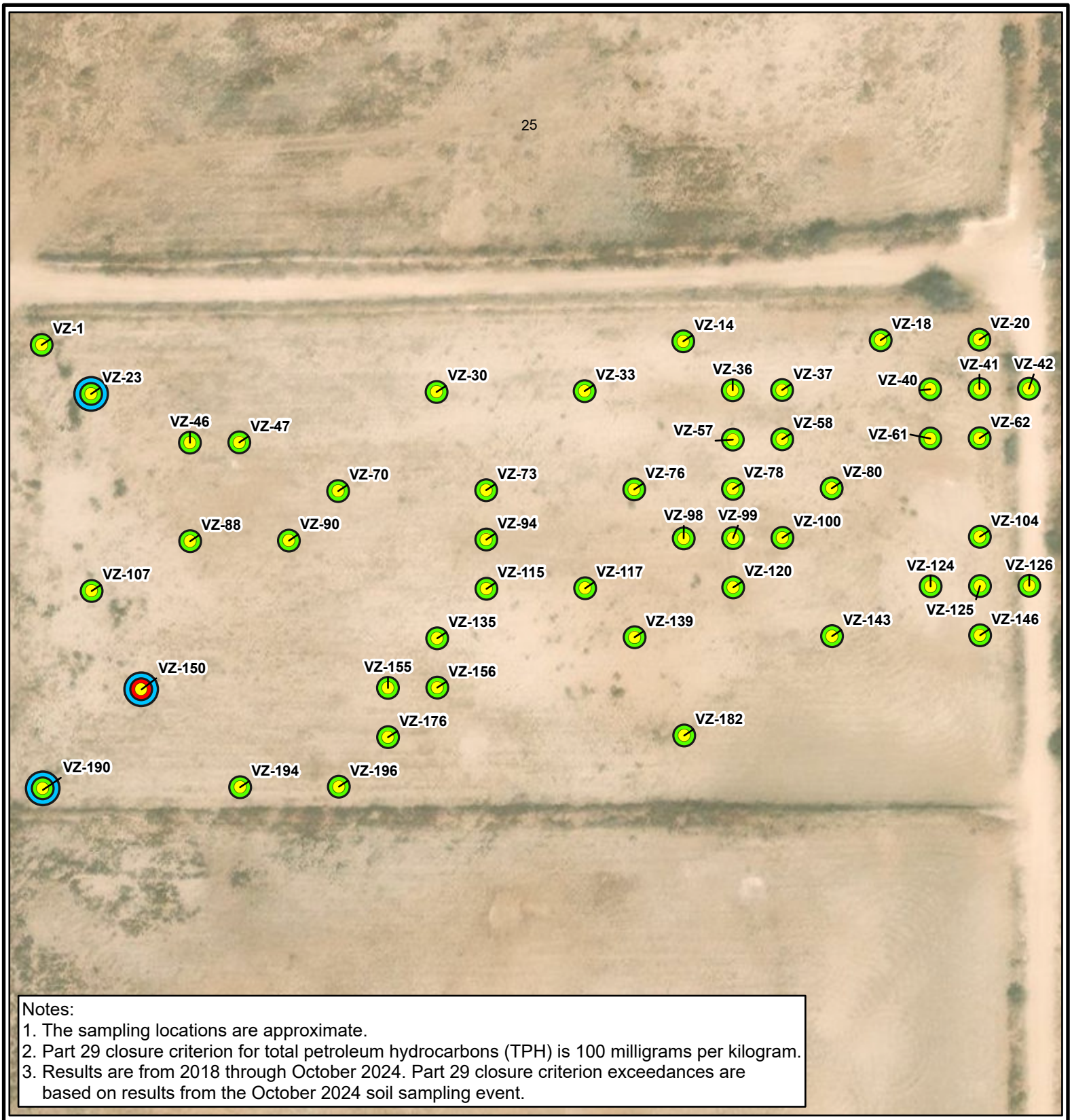
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM, PERMIT NM-02-0012
LEA COUNTY, NEW MEXICO
SITE CHARACTERIZATION & SOIL REMEDIATION WORK PLAN

CELL 20 CHLORIDE, BTEX, AND TPH CONCENTRATIONS

ARCADIS

FIGURE
6

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS_PRO\2024EVENT\2023_DEC_2024EVENT.APRX SAVED: 11/7/2024 BY: VMN1306



Notes:
1. The sampling locations are approximate.
2. Part 29 closure criterion for total petroleum hydrocarbons (TPH) is 100 milligrams per kilogram.
3. Results are from 2018 through October 2024. Part 29 closure criterion exceedances are based on results from the October 2024 soil sampling event.

LEGEND

- Vadose Zone Soil Sampling Location
- TPH < Part 29 Closure Criterion
- TPH > Part 29 Closure Criterion
- October 2024 Vadose Zone Soil Sampling Location

0 100 200
SCALE IN FEET

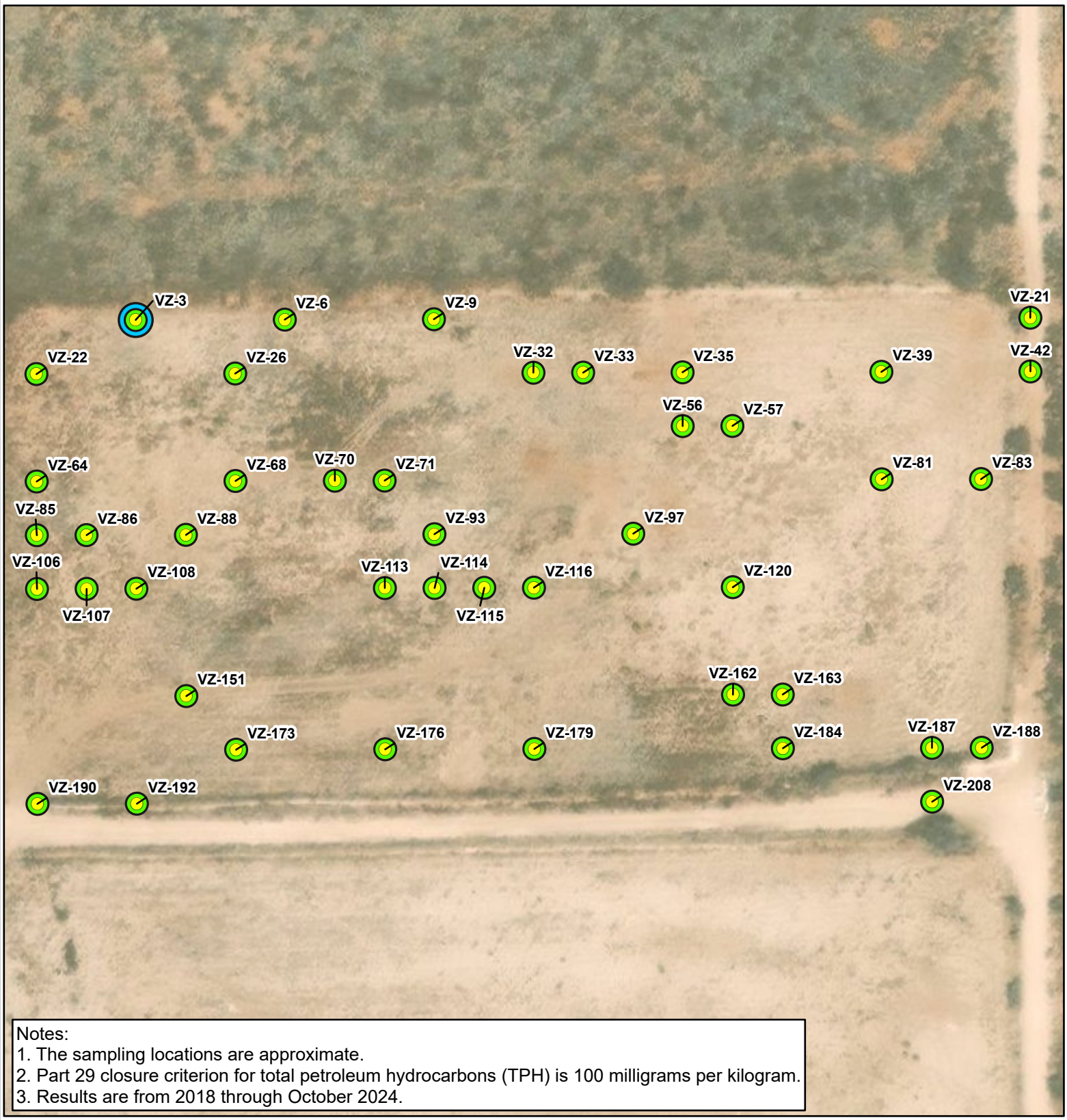
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM, PERMIT NM-02-0012
LEA COUNTY, NEW MEXICO
SITE CHARACTERIZATION & SOIL REMEDIATION WORK PLAN

CELL 21 TPH CONCENTRATIONS

ARCADIS

FIGURE
7

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS_PRO\2024EVENT\2023_DEC_2024EVENT.APRX SAVED: 11/7/2024 BY: VMN1306



Notes:
1. The sampling locations are approximate.
2. Part 29 closure criterion for total petroleum hydrocarbons (TPH) is 100 milligrams per kilogram.
3. Results are from 2018 through October 2024.

LEGEND

- Vadose Zone Soil Sampling Location
- TPH < Part 29 Closure Criterion
- October 2024 Vadose Zone Soil Sampling Location

0 100 200

SCALE IN FEET

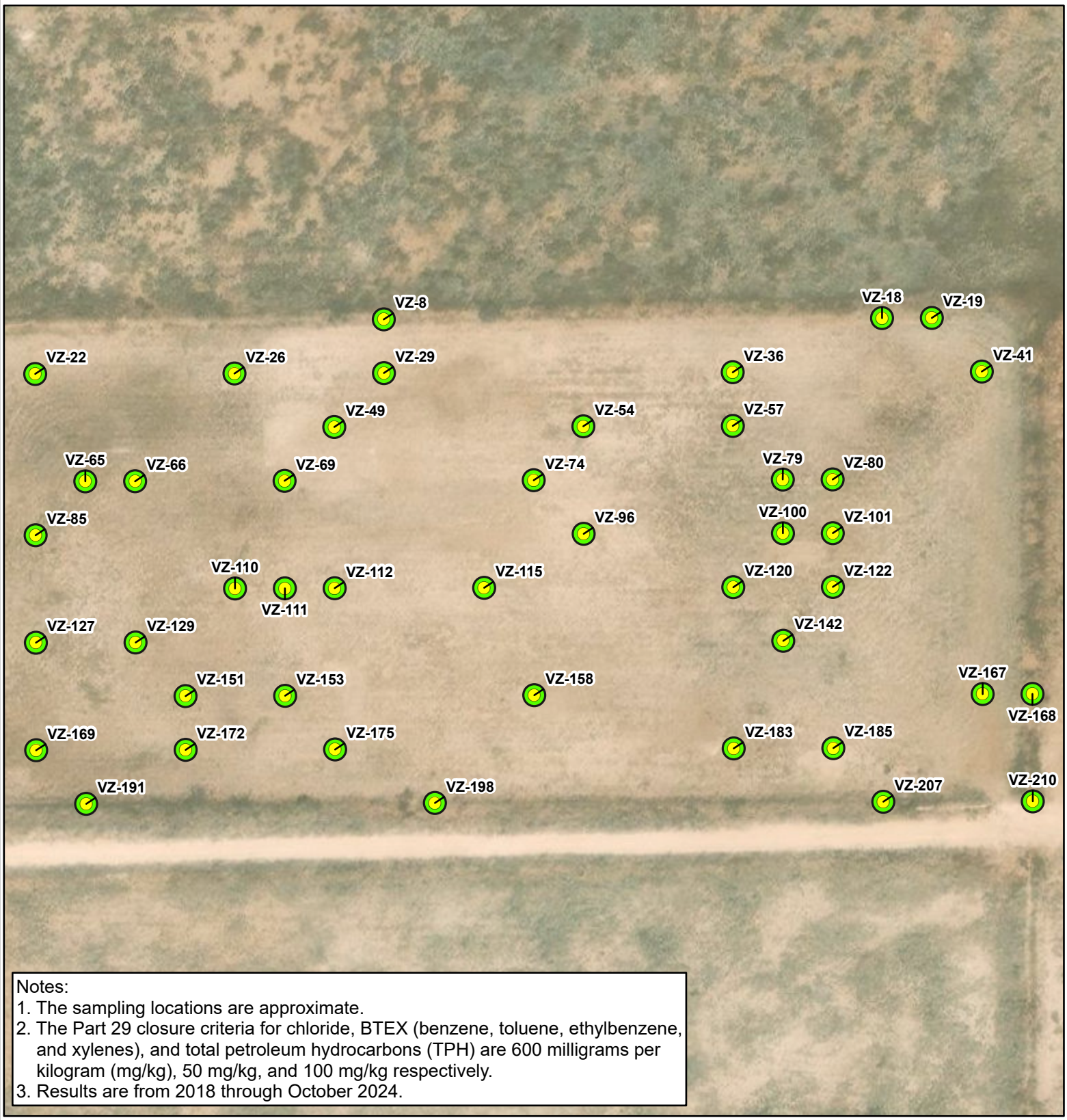
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM, PERMIT NM-02-0012
LEA COUNTY, NEW MEXICO
SITE CHARACTERIZATION & SOIL REMEDIATION WORK PLAN

CELL 25 TPH CONCENTRATIONS

ARCADIS

FIGURE
8

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS_PRO\2024EVENT\2023_DEC_2024EVENT.APRX SAVED: 11/7/2024 BY: VMN1306



Notes:
1. The sampling locations are approximate.
2. The Part 29 closure criteria for chloride, BTEX (benzene, toluene, ethylbenzene, and xylenes), and total petroleum hydrocarbons (TPH) are 600 milligrams per kilogram (mg/kg), 50 mg/kg, and 100 mg/kg respectively.
3. Results are from 2018 through October 2024.

LEGEND

- Vadose Zone Soil Sampling Location
- Chloride, BTEX, and TPH < Part 29 Closure Criteria

0 100 200

SCALE IN FEET

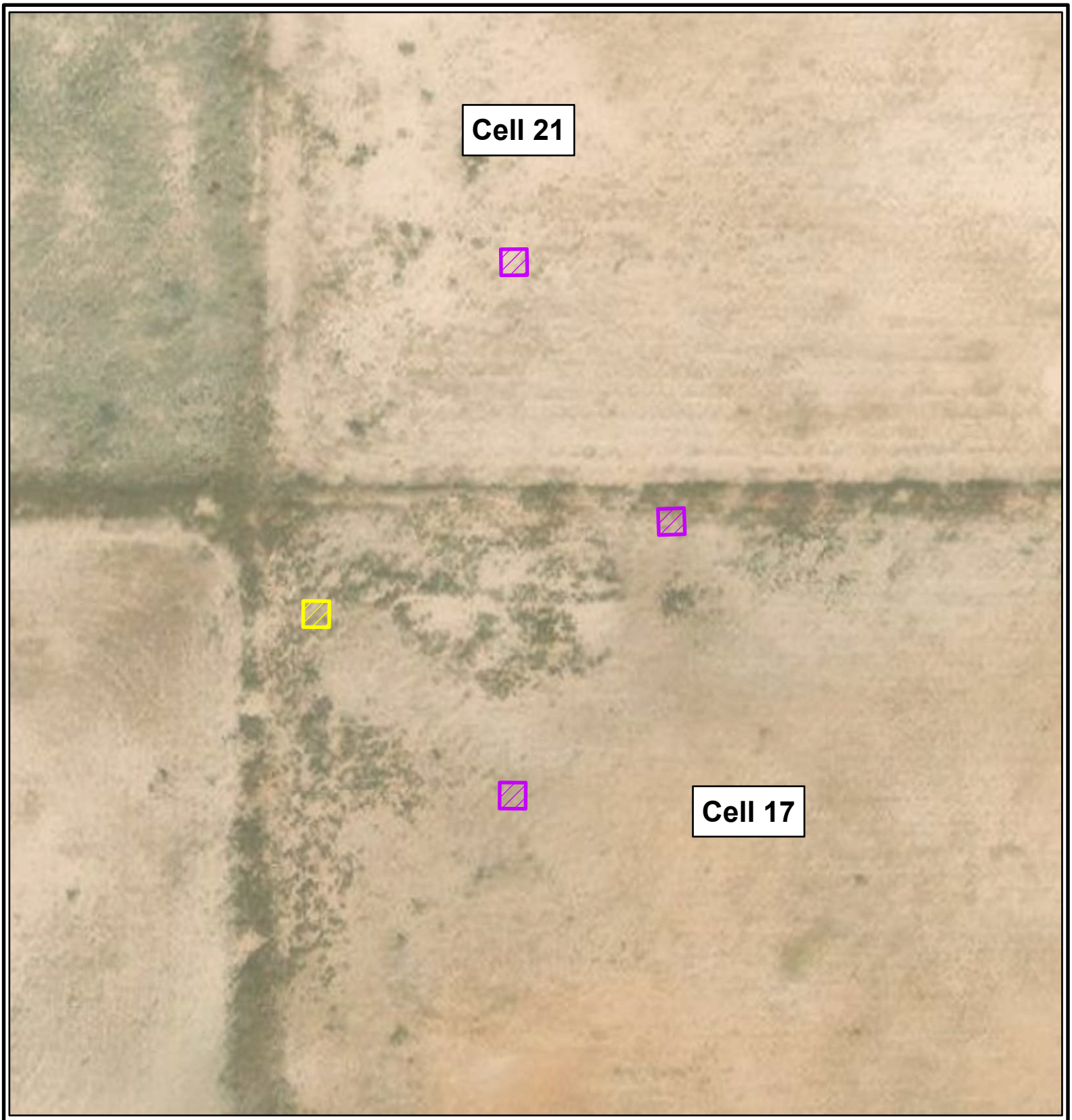
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM, PERMIT NM-02-0012
LEA COUNTY, NEW MEXICO
SITE CHARACTERIZATION & SOIL REMEDIATION WORK PLAN

CELL 26 CHLORIDE, BTEX, AND TPH CONCENTRATIONS

ARCADIS

FIGURE
9

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS_PRO\2024EVENT\2023_DEC_2024EVENT.APRX SAVED: 11/7/2024 BY: LDRUM



LEGEND

- Proposed Excavation Area - 5 feet below ground surface
- Proposed Excavation Area - 4 feet below ground surface

0 50 100

SCALE IN FEET

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM, PERMIT NM-02-0012
LEA COUNTY, NEW MEXICO
SITE CHARACTERIZATION & SOIL REMEDIATION WORK PLAN

PROPOSED EXCAVATION BOUNDARIES

ARCADIS

FIGURE
10

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403258
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2113741693**
Incident Name	**NAPP2113741693 JAL LANDFARM @ 0**
Incident Type	**Other**
Incident Status	**Remediation Plan Received**
Incident Facility	**[fEEM0112332673] JAL LANDFARM**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	JAL LANDFARM
Date Release Discovered	04/21/2021
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	*Not answered.*
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	Cause: | | Other (Specify) | Released: 0 (Unknown Released Amount) | Recovered: 0 | Lost: 0 .
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	The Site operates as a surface waste management facility; however, no new waste material has been received since 2007. Waste received at the facility consisted of soil/solids impacted with exempt hydrocarbons. Minor impacts of TPH and Chloride to the vadose zone (2 – 3 feet below native ground surface) have been measured.

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403258
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**More info needed to determine if this will be treated as a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	*Unavailable.*
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 11/14/2024

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403258
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1550
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	510
GRO+DRO (EPA SW-846 Method 8015M)	1690
BTEX (EPA SW-846 Method 8021B or 8260B)	19.8
Benzene (EPA SW-846 Method 8021B or 8260B)	1
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	02/17/2025
On what date will (or did) the final sampling or liner inspection occur	03/03/2025
On what date will (or was) the remediation complete(d)	03/10/2025
What is the estimated surface area (in square feet) that will be reclaimed	400
What is the estimated volume (in cubic yards) that will be reclaimed	65
What is the estimated surface area (in square feet) that will be remediated	400
What is the estimated volume (in cubic yards) that will be remediated	65
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403258
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 11/16/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403258
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator:	OGRID:
CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	4323
	Action Number: 403258
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	*{Unavailable.}*

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403258
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Site assessment/characterization and remediation plan is approved. Landfarm operator shall complete the applicable remediation and closure requirements of 19.15.29.12 NMAC. After the approval of the release closure report the landfarm operator will reapply the treatment zone soils over the remediated vadose zone to continue landfarm operations.	11/19/2024